

# SERVICE MANUAL

## Multi-media Projector

# SANYO



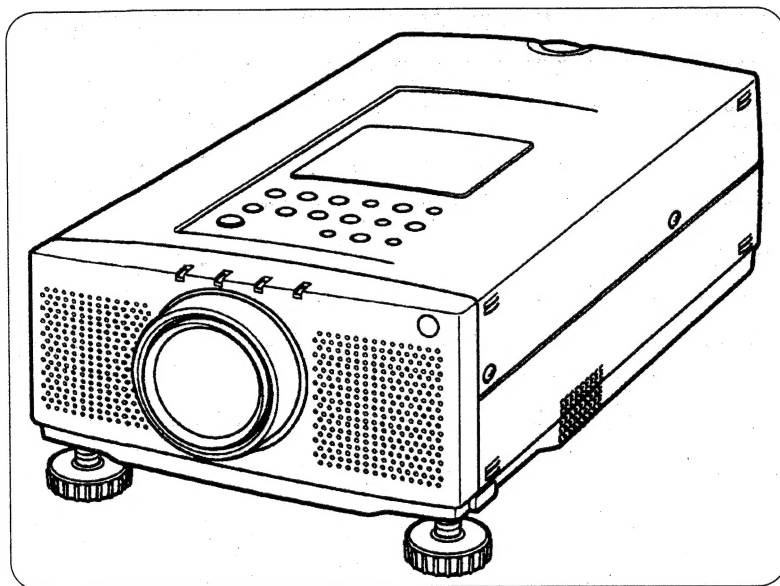
V28157

FILE NO.

Model no.

**PLC-XP17E**  
(Europe, Asia, Africa, M.E.)

**PLC-XP17B**  
(U.K.)



ORIGINAL VERSION

Service PLC-XP17E-00  
Ref.No. PLC-XP17B-00

Give complete "Service Ref. No." for parts order or servicing, it is shown on the rating sheet on the cabinet of the Projector.

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### PRODUCT CODE

PH6A (PLC-XP17E) ; 1122 078 00  
PH6C (PLC-XP17B) ; 1122 078 02

REFERENCE NO. SM5110118

## TECHNICAL SPECIFICATIONS

<b>Projector Type</b>	Multi-media Projector
<b>Dimensions (W x H x D)</b>	272 mm x 145.5 mm x 412.5 mm
<b>Net Weight</b>	6.9 kg
<b>LCD Panel System</b>	1.3" TFT Active Matrix type x 3 panels
<b>Number of Pixels</b>	2,359,296 {786,432 (1,024 x 768) x 3}
<b>Colour System</b>	6 colour system (PAL, SECAM, NTSC, NTSC4.43, PAL-M and PAL-N)
<b>Scanning Frequency</b>	H-sync. 15 ~ 100 KHz, V-sync. 50 ~ 100 Hz
<b>Projection Image Size (Diagonal)</b>	Adjustable from 31" to 400"
<b>Horizontal Resolution</b>	800 TV lines
<b>Projection Lens</b>	F1.8 ~ 2.1 lens with f=48.4 mm ~ 62.8 mm Motor zoom and focus
<b>Throw Distance</b>	1.4 m ~ 14.4 m
<b>Projection Lamp</b>	200 watt type
<b>AV Input Jacks</b>	PHONO Type 3 x 2 sets (Video, Audio R and L), (Y, Cb/Pb, Cr/Pr) and DIN 4 pin (S-Video) x 1
<b>Computer Input Jacks</b>	(VGA) HDB 15 Terminal x 2, DIN 8 pin (Control port) x 2
<b>Computer Output Jack</b>	(VGA) HDB 15 Terminal
<b>Computer Audio Input Jacks</b>	Mini Stereo Type x 2
<b>Other Jack</b>	EXT. Speaker Jack (Stereo) x 1
<b>Built-in Speaker</b>	INT. SP. Stereo (R and L), 2 watt RMS (T.H.D.10%)
<b>Image Elevation Adjustment</b>	Up to 6 °
<b>Voltage</b>	200 ~ 240 V AC, 50/60 Hz (Model PLC-XP20E/XP17E)
	110 ~ 120 V AC, 50/60 Hz (Model PLC-XP20/XP17)
<b>Power Consumption</b>	1.8 A (Max. Ampere) Model PLC-XP20E/XP17E
	3.6 A (Max. Ampere) Model PLC-XP20/XP17
<b>Operating Temperature</b>	5°C ~ 35°C (41°F ~ 95°F)
<b>Storage Temperature</b>	-10°C ~ 60°C (14°F ~ 140°F)
<b>Remote Control Transmitters</b>	Wireless Remote Control with Laser Beam (Class II Laser) Max. Output 1mW/Wave Length 650 ± 20nm, batteries (2) AA, UM3 or R06 type.



Mechanical disassemble should be made following procedures in numerical order. Following steps show the basic procedures, therefore unnecessary step may be ignored.

**Caution:**

The parts and screws should be placed exactly the same position as the original otherwise it may cause loss of performance and product safety.

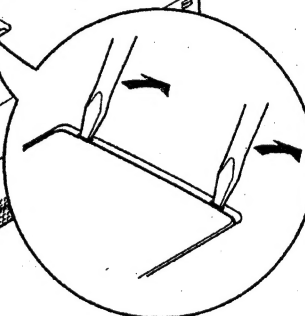
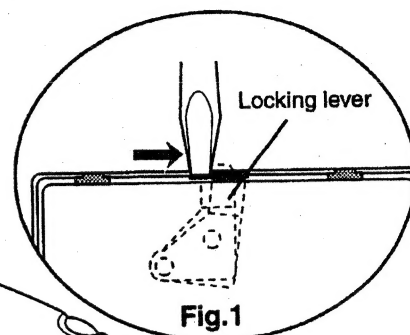
## 1. COVER TOP REMOVAL

- 1) Slide the locking lever in the direction of the arrow by using slot screwdriver (Fig.1) and lift up the cover slightly.
- 2) Insert two 1mm slot screwdrivers to the slots of the cabinet top at the same time. Turn them in the arrow direction gently to lift off the cover top upward.

**Note:**

Be careful not to damage the cabinet finish when removing it.

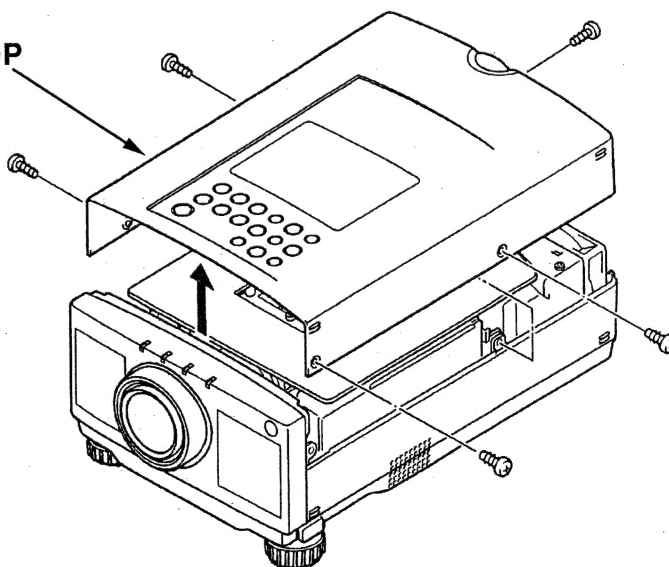
COVER TOP



## 2. CABINET TOP REMOVAL

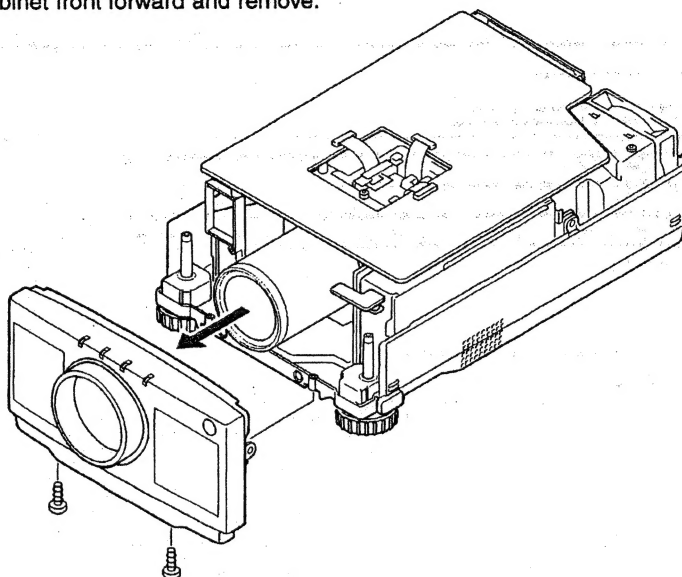
- 1) Remove 4 screws on side cabinet and 1 screw on rear.
- 2) Grasp the two sides, pull the cabinet top upward and remove.

CABINET TOP



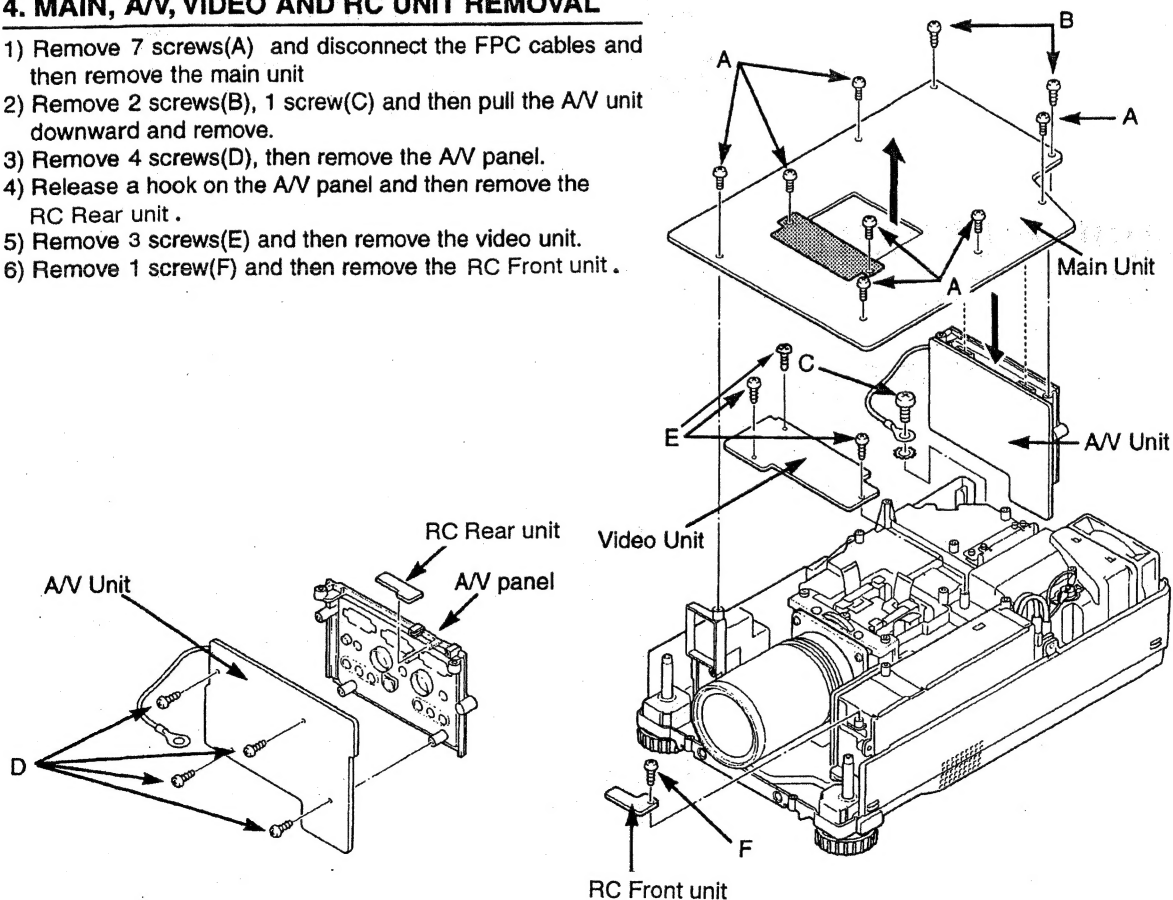
## 3. CABINET FRONT REMOVAL

- 1) Remove 2 screws on cabinet front bottom.
- 2) Grasp the two sides, pull the cabinet front forward and remove.



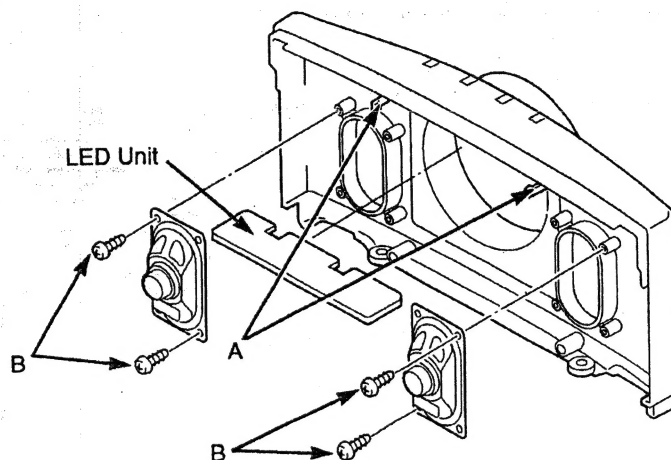
## 4. MAIN, A/V, VIDEO AND RC UNIT REMOVAL

- 1) Remove 7 screws(A) and disconnect the FPC cables and then remove the main unit
- 2) Remove 2 screws(B), 1 screw(C) and then pull the A/V unit downward and remove.
- 3) Remove 4 screws(D), then remove the A/V panel.
- 4) Release a hook on the A/V panel and then remove the RC Rear unit.
- 5) Remove 3 screws(E) and then remove the video unit.
- 6) Remove 1 screw(F) and then remove the RC Front unit.



## 5. LED UNIT AND SPEAKER REMOVAL

- 1) Release two hooks(A) and pull out the LED unit.
- 2) Remove 4 screws(B) and then remove the speakers.

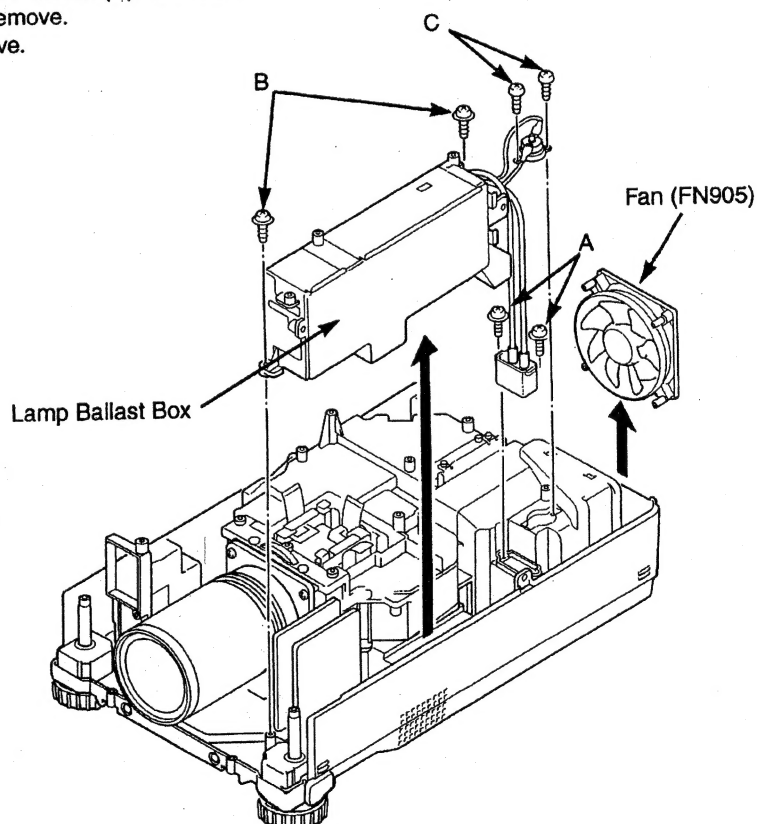
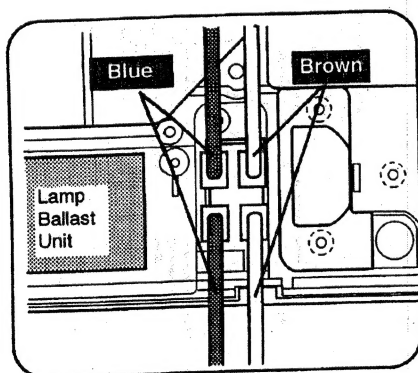


## 6. LAMP BALLAST BOX AND FAN (FN905) REMOVAL

- 1) Remove 2 screws(A), 2 screws(B) and 2 screws(C), and then pull the lamp ballast box upward and remove.
- 2) pull the fan (FN905) upward and remove.

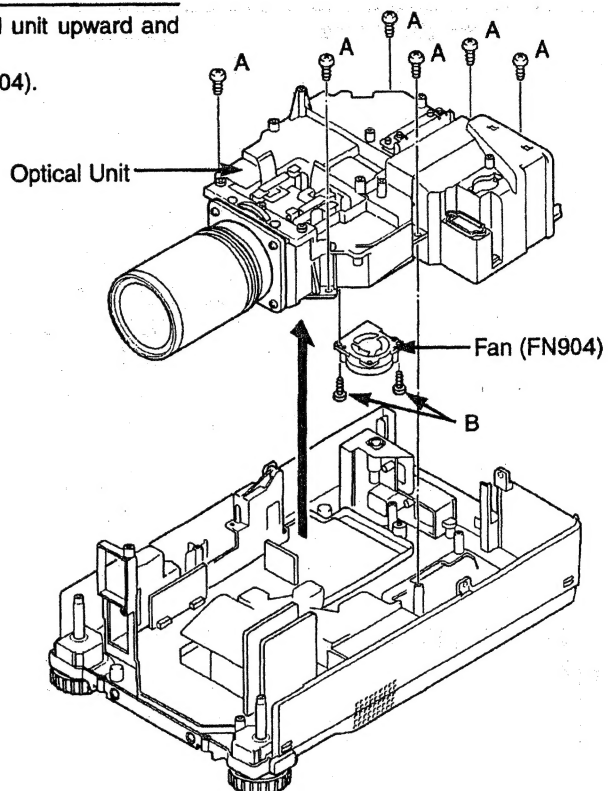
### Note:

Be careful to connect the lamp socket.  
Please see following illustrations.



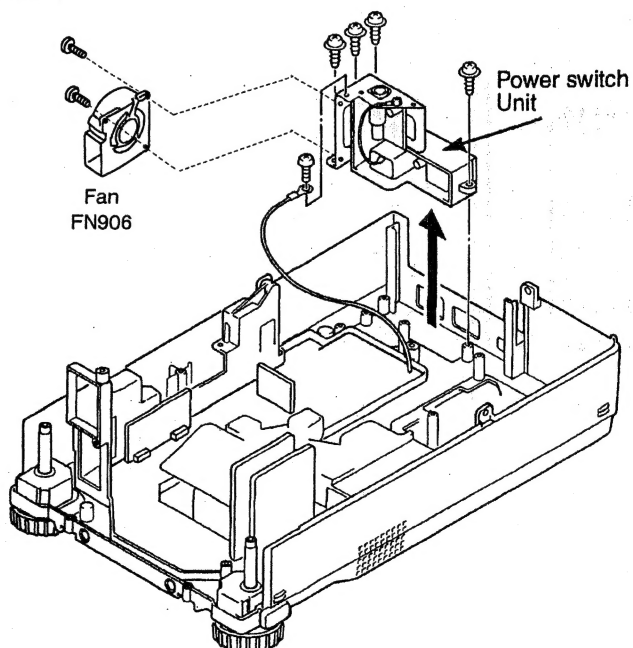
## 7. OPTICAL UNIT AND FAN (FN904) REMOVAL

- 1) Remove 6 screws(A) and then pull the optical unit upward and remove.
- 2) Remove 2 screws(B) and remove the fan (FN904).



## 8. POWER SWITCH UNIT AND FAN REMOVAL

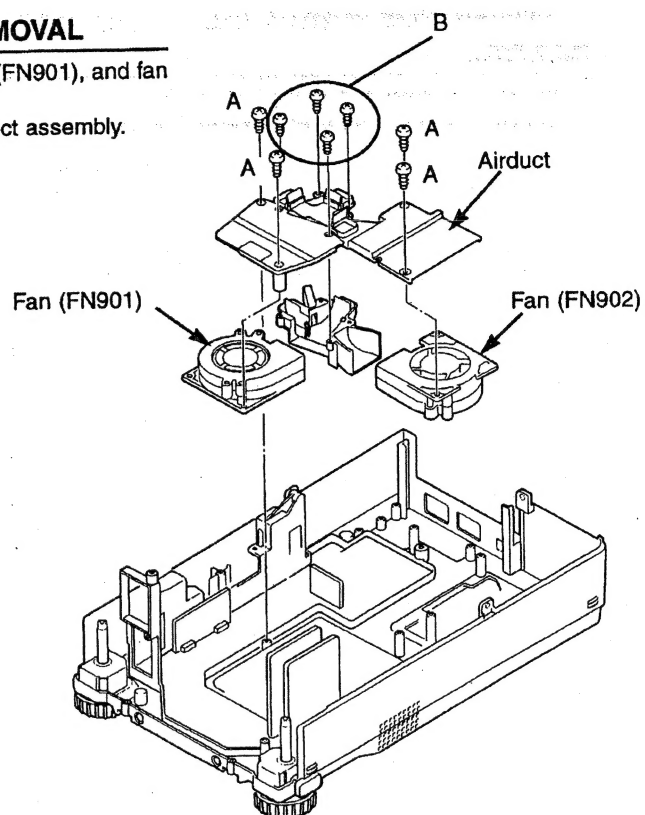
- 1) Remove 5 screws and then pull the power switch unit upward.
- 2) Remove 2 screws and remove the fan(FN906).





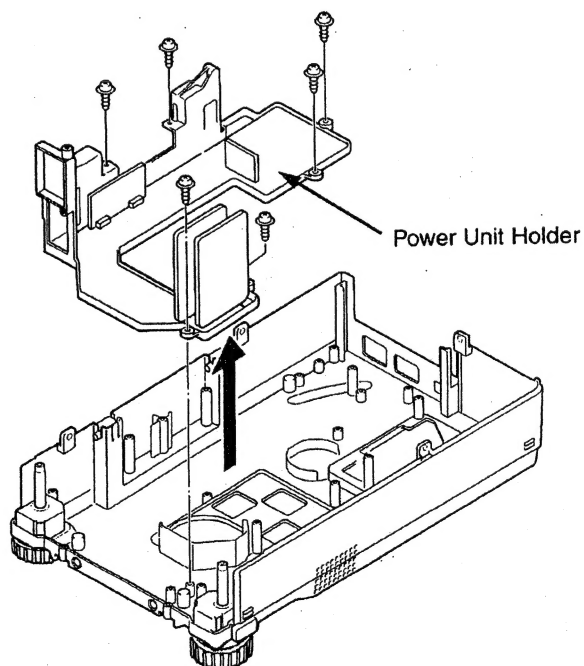
## 9. FAN (FN901, FN902) , AIRDUCT REMOVAL

- 1) Remove 4 screws(A) and pull the airduct, fan (FN901), and fan (FN902) upward.
- 2) Remove 4 screws(B) to disassemble the airduct assembly.



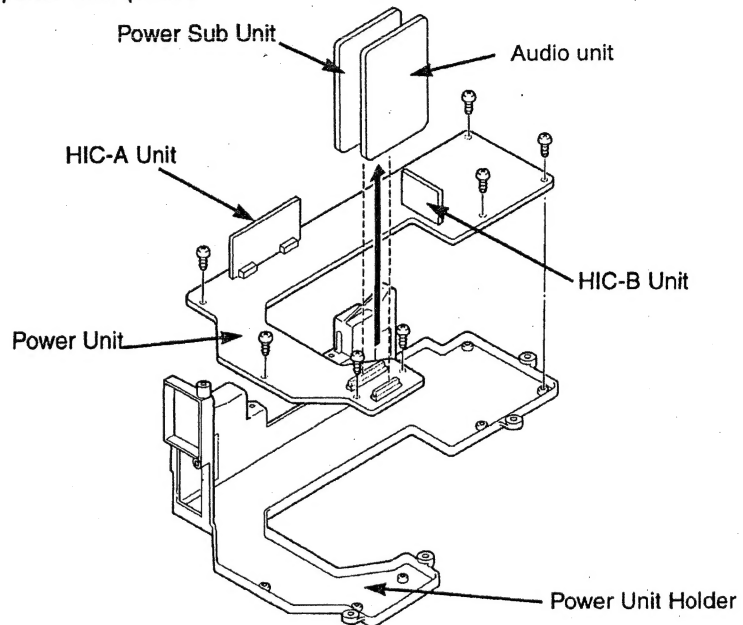
## 10. POWER UNIT HOLDER REMOVAL

- 1) Remove 6 screws, pull the power unit holder upward.



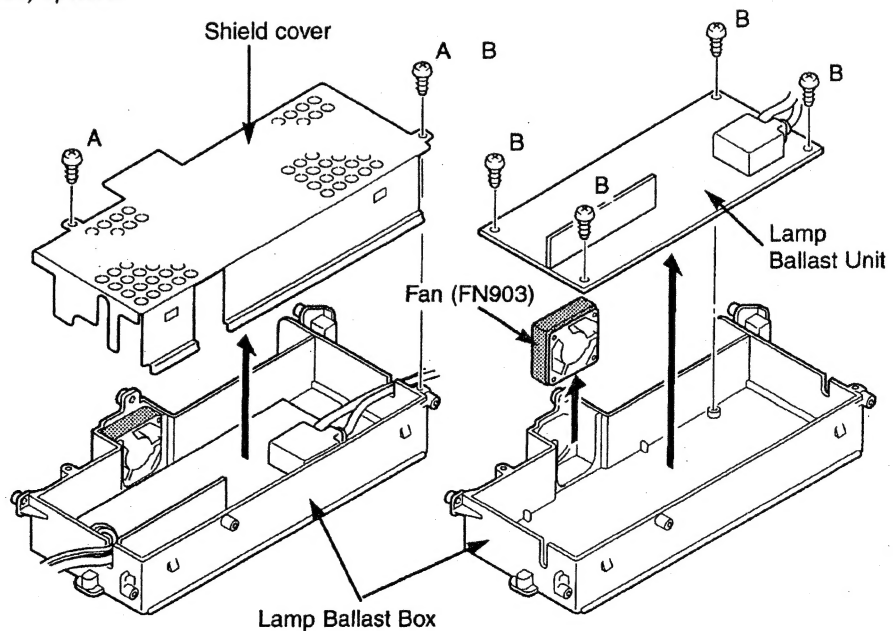
### 11. POWER, SUB POWER AND AUDIO UNIT REMOVAL

- 1) Pull the sub-power and Audio unit upward.
- 2) Remove 7 screws and pull the power unit upward.



### 12. LAMP BALLAST UNIT AND FAN (FN903) REMOVAL

- 1) Remove 2 screws(A) and remove the shield cover.
- 2) Remove 4 screws(B) and pull the lamp ballast unit upward.
- 3) Pull the fan (FN903) upward.



Remove the cabinet, cabinet front, main, video and A/V unit following to steps 2 to 4 of "Mechanical Disassemblies"

## 1. LENS ASSY REMOVAL

- 1) Remove 4 screws and remove the lens assy.

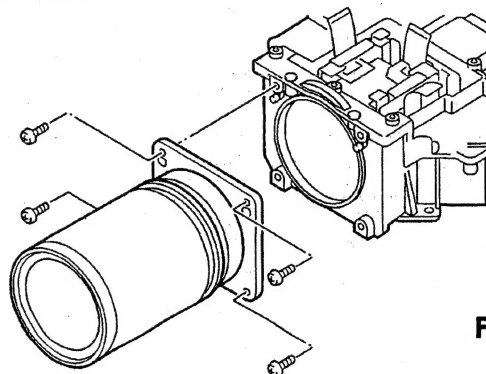


Fig.1

## 2. RELAY LENS AND INTEGRATOR LENS AND POLARIZED GLASS-IN R, G, B REMOVAL

- 1) Remove 2 screws(A) and then pull the relay lens upward.
- 2) Remove 2 screws(B) and then pull the integrator lens upward.
- 3) Remove each screw(C) and then pull the polarized glass-in R, G, B upward.

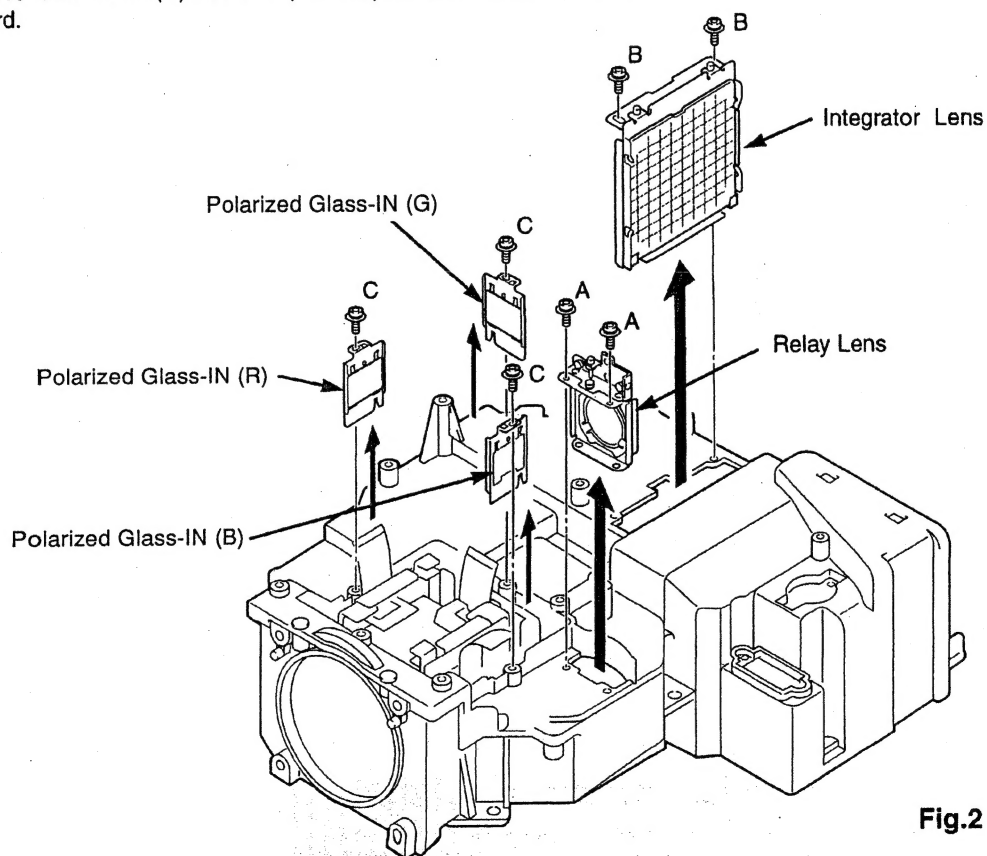
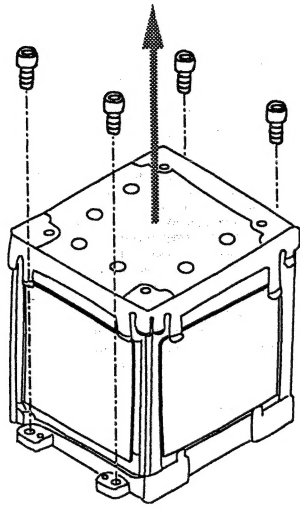


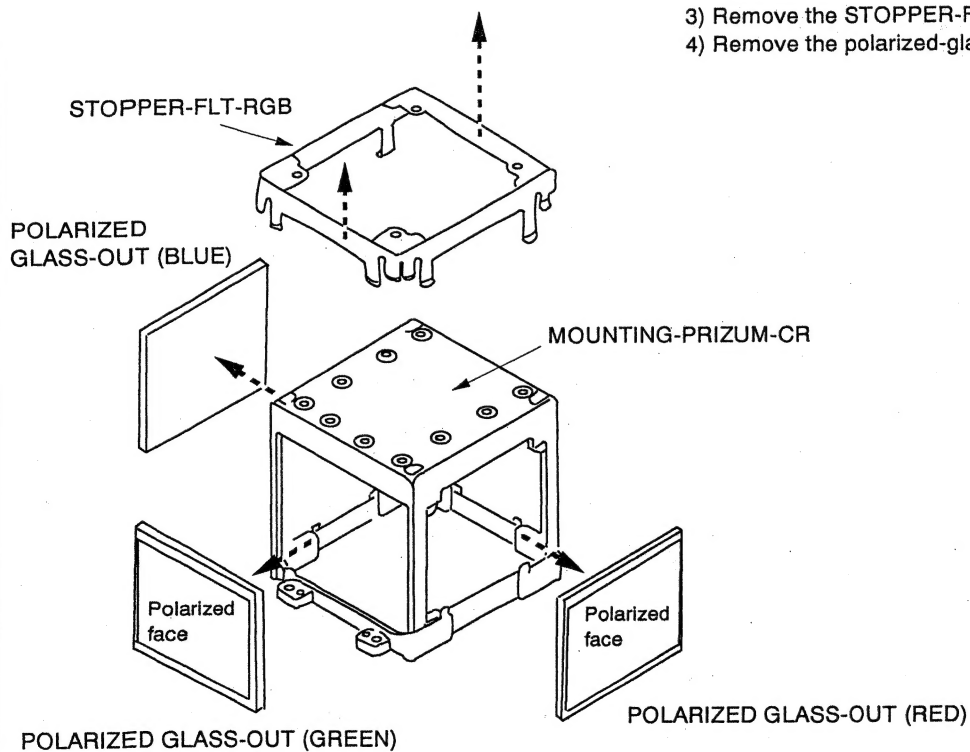
Fig.2



ASS'Y POLARIZED GLASS

## 3. POLARIZED-GLASS-OUT R,G,B REMOVAL

- 1) Remove ass'y-LCD-Panels. R/G/B
- 2) Remove 4 screws and then pull the Ass'y-polarized-glass upward.



- 3) Remove the STOPPER-FLT-RGB
- 4) Remove the polarized-glass-out R,G,B.

### NOTE ;

Polarized-glass-out R, G and B are not used in some particular models.



### 4. RELAY LENS DISASSEMBLY

- 1) Remove 2 screws
- 2) Remove lens holder and then remove relay lens and optical filter.

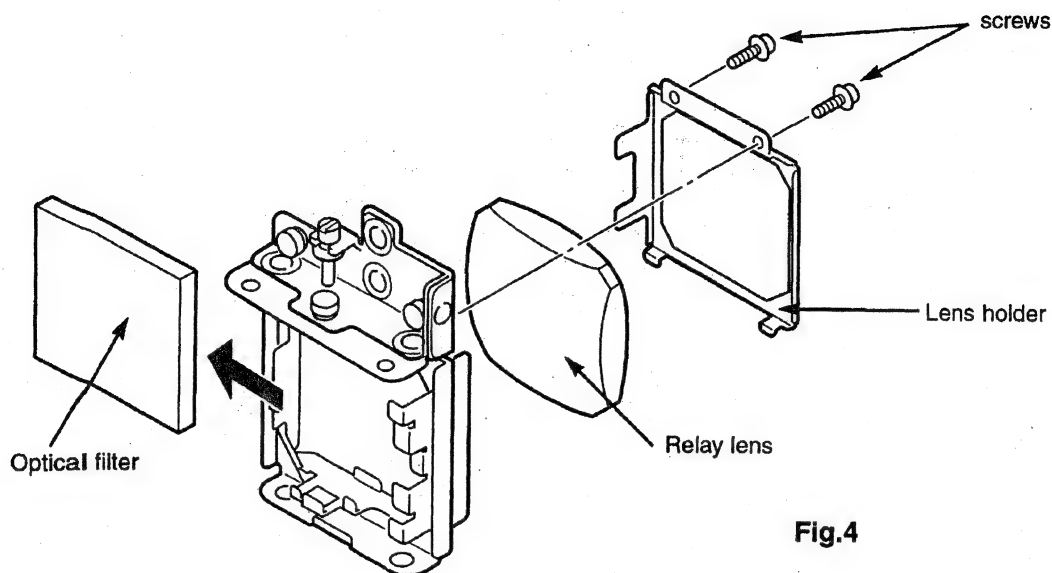


Fig.4

### 5. INTEGRATOR LENS DISASSEMBLY

- 1) Remove 2 stoppers downward and twist 7 hooks and then remove integrator lens.

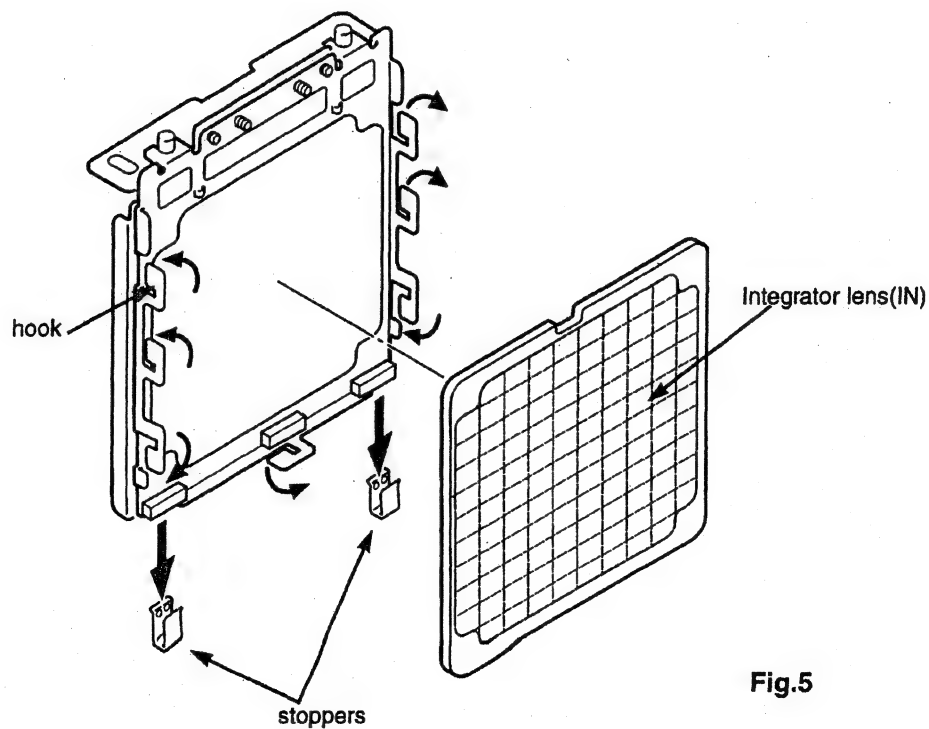


Fig.5

## 6. OPTICAL BASE TOP REMOVAL

Remove 9 screws and then pull the optical base top upward.

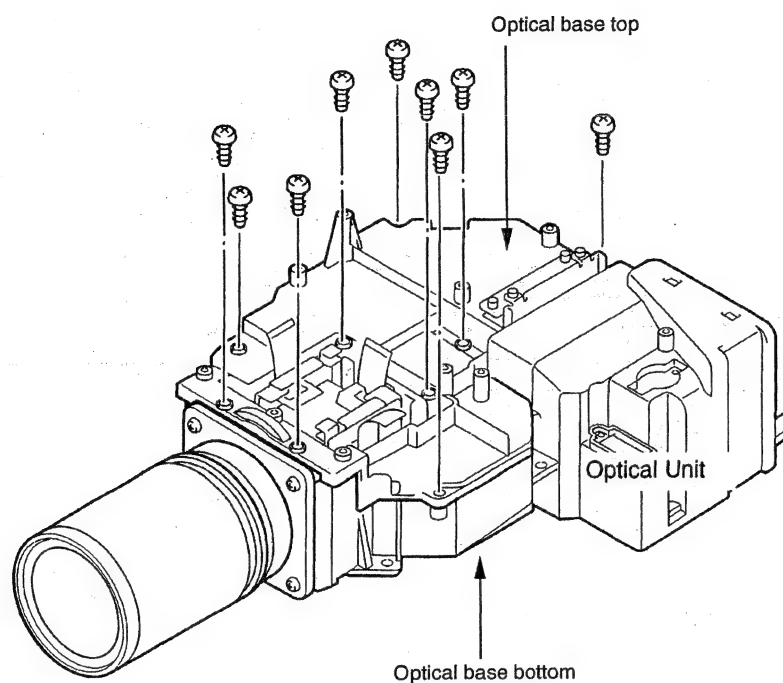


Fig.6

### OPTICAL PARTS LOCATIONS

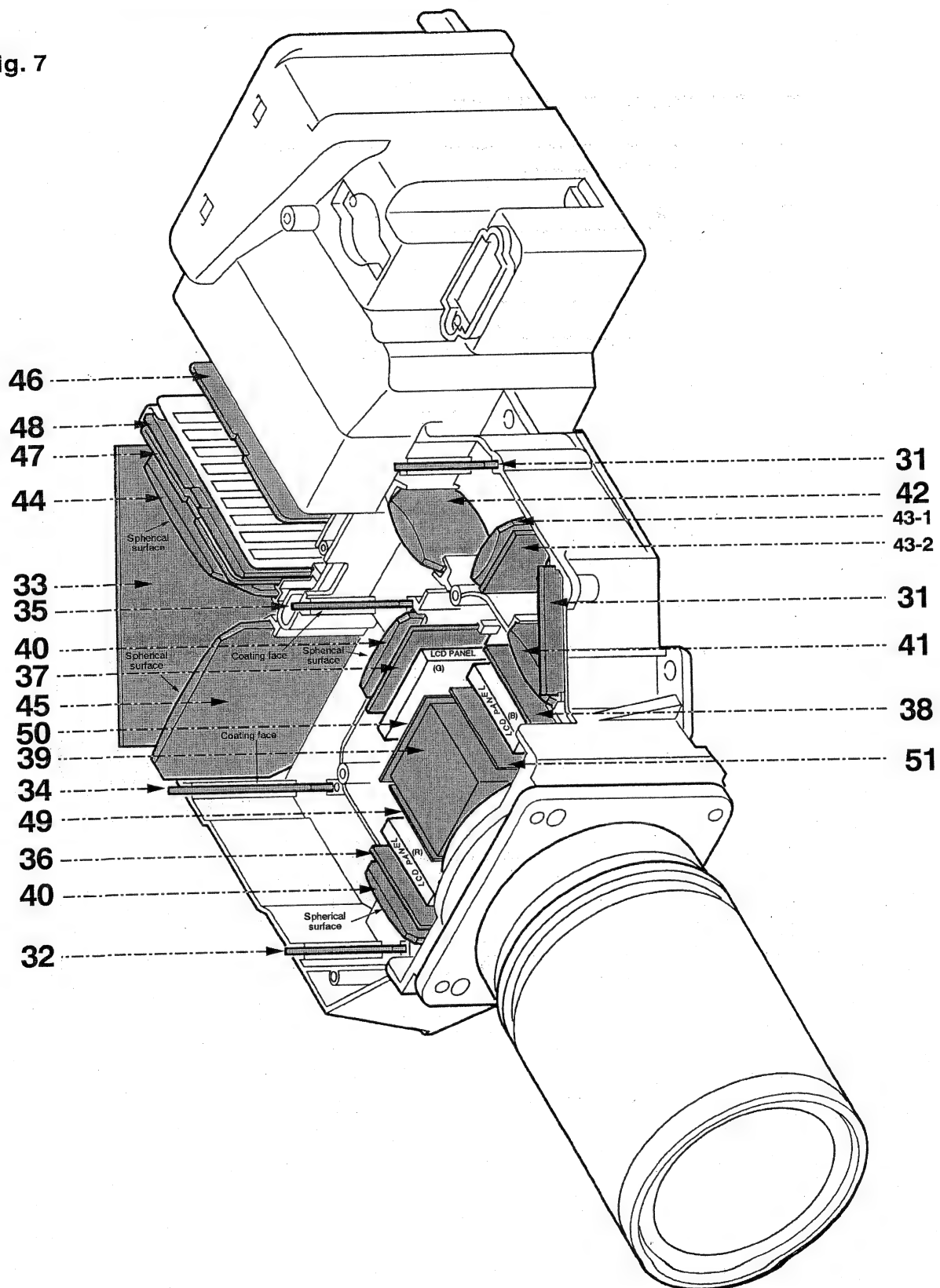
Refer to next page

31	MIRROR(B)	42	LENS, RELAY(IN)
32	MIRROR(R)	43-1	LENS, RELAY(OUT)
33	MIRROR(W)	43-2	OPTICAL FILTER(UV CUT)
34	DICHROIC MIRROR (R)	44	LENS, CONDENSER(IN)
35	DICHROIC MIRROR (G)	45	LENS, CONDENSER(OUT)
36	POLARIZED GLASS-IN(R)	46	LENS, INTEGRATOR(IN)
37	POLARIZED GLASS-IN(G)	47	ASSY, LENS, INT. (OUT)
38	POLARIZED GLASS-IN(B)	48	PRISM(P. B. S.) (Polarized Beam Splitter)
39	ASSY, PRISM	49	POLARIZED GLASS-OUT(R)
40	LENS, CONDENSER	50	POLARIZED GLASS-OUT(G)
41	LENS, CONDENSER(B)	51	POLARIZED GLASS-OUT(B)

#### NOTE :

Key NO. 49, 50 and 51(polarized-glass-out R, G and B) are not used in some particular models.

**Fig. 7**



### Mounting direction of optical parts

The optical parts must be mounted in specified direction otherwise the picture image will not project correctly.

#### - Mirror mounting ( Key NO. 31/32/33 )

Mount the mirror with coating side(mirror side) inside.

#### - Lens mounting

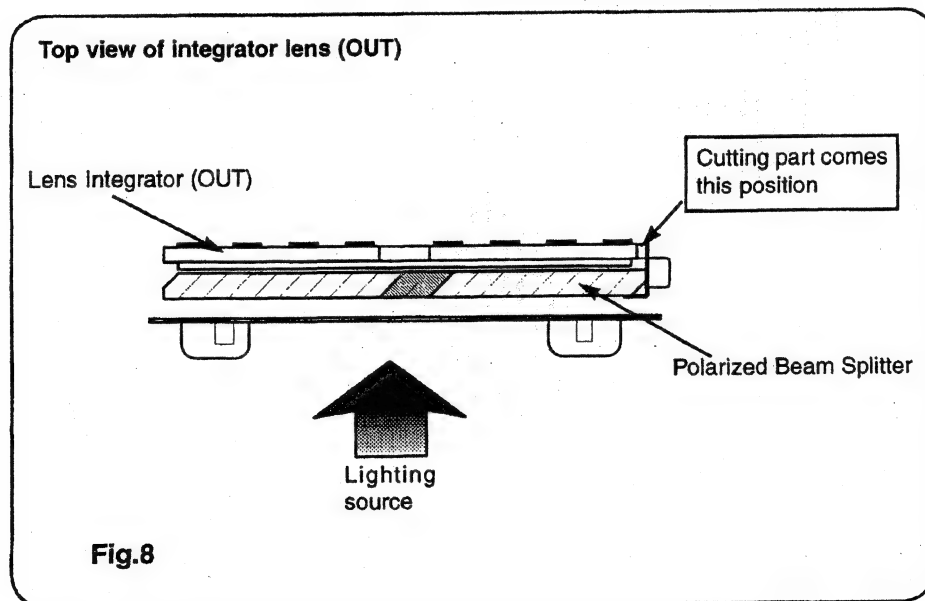
Lens ( Key NO. 40/44/45 ) must be mounted as shown in Fig.7.

Lens ( Key NO. 41/42 ) has no mounting direction.

Lens ( Key NO. 47/48 ) must be mounted as shown in Fig.8.

#### - Dichroic Mirror mounting

Dichroic mirrors ( Key NO. 34/35 ) must be mounted as shown in Fig.7.



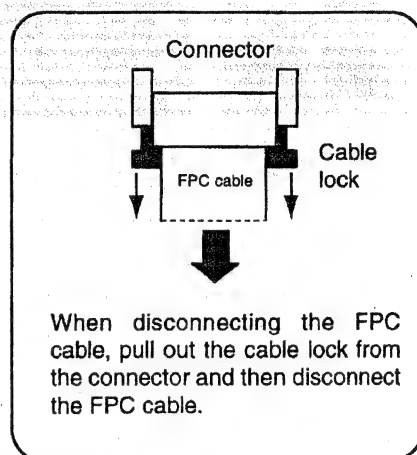
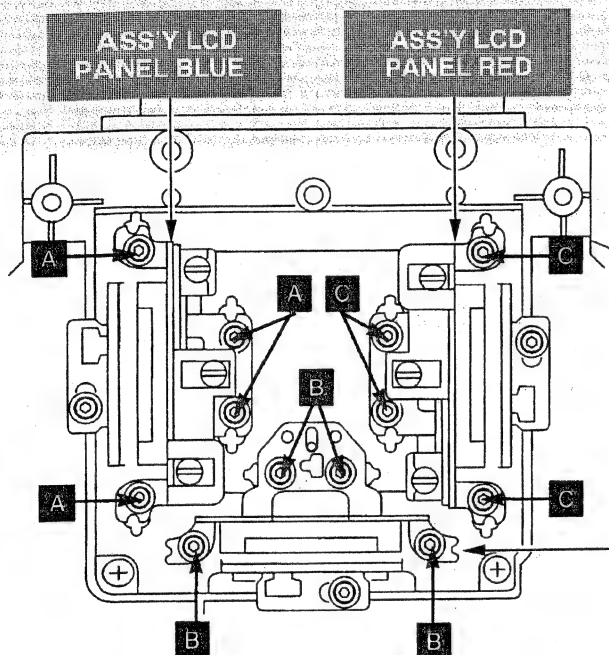


# LCD PANEL REPLACEMENT

Disassemblies and replacement procedures

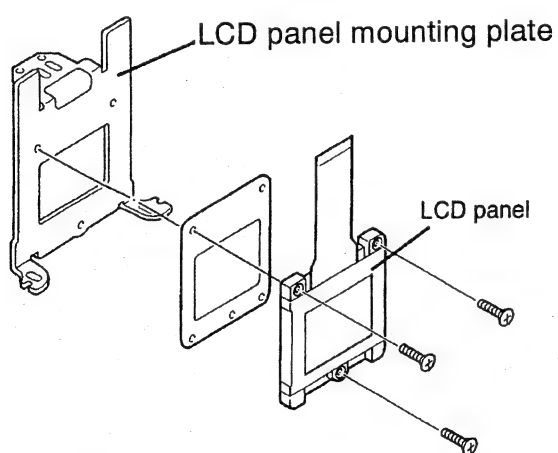
## ■ ASS'Y LCD PANEL REMOVAL

1. Remove the FPC cable on the main board.
2. Remove 4 screws (A=Blue, B=Green, C=Red) for the ass'y LCD Panel.
3. Pull out the ass'y LCD Panel.

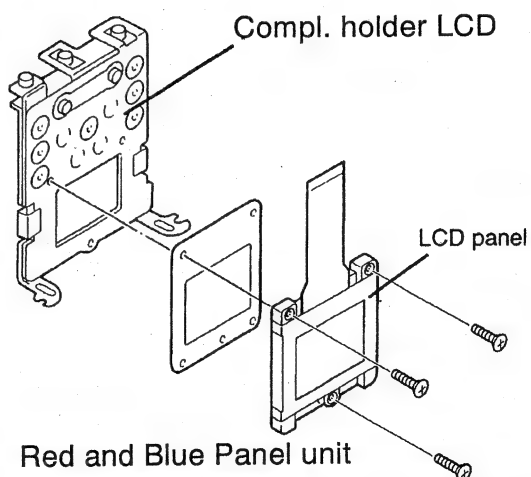


## ■ LCD PANEL REPLACEMENT

Remove 3 screws, then remove the LCD Panel and replace it.



Green Panel unit



Red and Blue Panel unit

### NOTE:

After replacing the LCD panel, readjust the

- Focus adjustment,
- Convergence adjustment,
- Common center adjustment,
- White balance adjustment,
- and ■ Uneven color correction.

(Refer to optical and electrical adjustments)

## Lamp ass'y replacement

- If the lamp fails to come on and the lamp replacement indicator on the projector light is orange, you must replace the lamp.

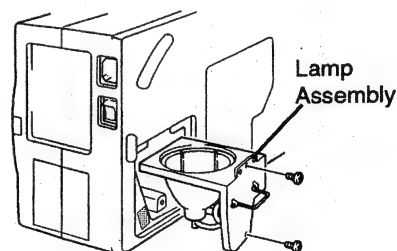
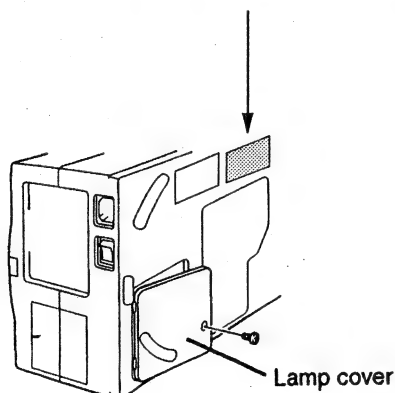


- For continued safety, replace with a lamp assembly of the same type. part NO. 610 282 2755
- Allow the projector to cool for at least 45 minutes before you open the lamp cover. The inside of the projector can become very hot.
- Do not drop the lamp module or touch the glass bulb! The glass can shatter and cause injury.

- Follow these steps to replace the lamp assembly.

1. Turn off the projector and allow the projector to cool thoroughly.
2. Disconnect the AC cord from the projector.
3. Remove screw with a screwdriver and remove the lamp cover.
4. Remove 2 screws with a screwdriver and pull out the lamp assembly by grasping the handle.
5. Replace the lamp assembly.
6. Tighten 3 screws to secure the lamp cover to the lamp assembly.
7. Connect the detachable AC cord to the projector.
8. Reset the lamp replacement monitor timer. (Refer to next page.)

- ⚠ Turn off. Remove AC cord and wait 45 minutes before open this lamp cover. Refer owner's manual for replacing the lamp. Replace with same type lamp.
- ⚠ Eteindre l'appareil. Enlever le Cordon secteur et attendre 45 minutes avant d'ouvrir ce couvercle. Se reporter au mode d'emploi pour remplacer la lampe. Remplacer la lampe par un model identique.
- ⚠ Schalten Sie den Projektor aus, ziehen Sie das Stromkabel aus dem Projektor und warten Sie 45 Minuten, bevor Sie den Projektor öffnen. Lesen Sie im Manual im Kapitel "Lampenwechsel" die Details nach. Benutzen Sie nur eine offizielle Ersatzlampe des gleichen Typs.
- ⚠ Apague el aparato. Desconecte el cable de red y espere 45 minutos antes de abrir la tapa. Consulte el manual de instrucciones para cambiar la lámpara. Cambie la lámpara por otra del mismo tipo.
- ⚠ Stäng av projektorn. Dra ur Kontakten och vänta 45 minuter innan Ni öppnar skyddet. Vi hänvisar till instruktionsboken innan Ni byter lampor. Använd samma typ av lampor.
- ⚠ Sluk for projektoren. Fjern netledningen fra stikkontakten og vent 45 min., før kabinettet åbnes. Se i brugsanvisningen, før lampen skiftes. Brug samme type lampe.



### WARNING

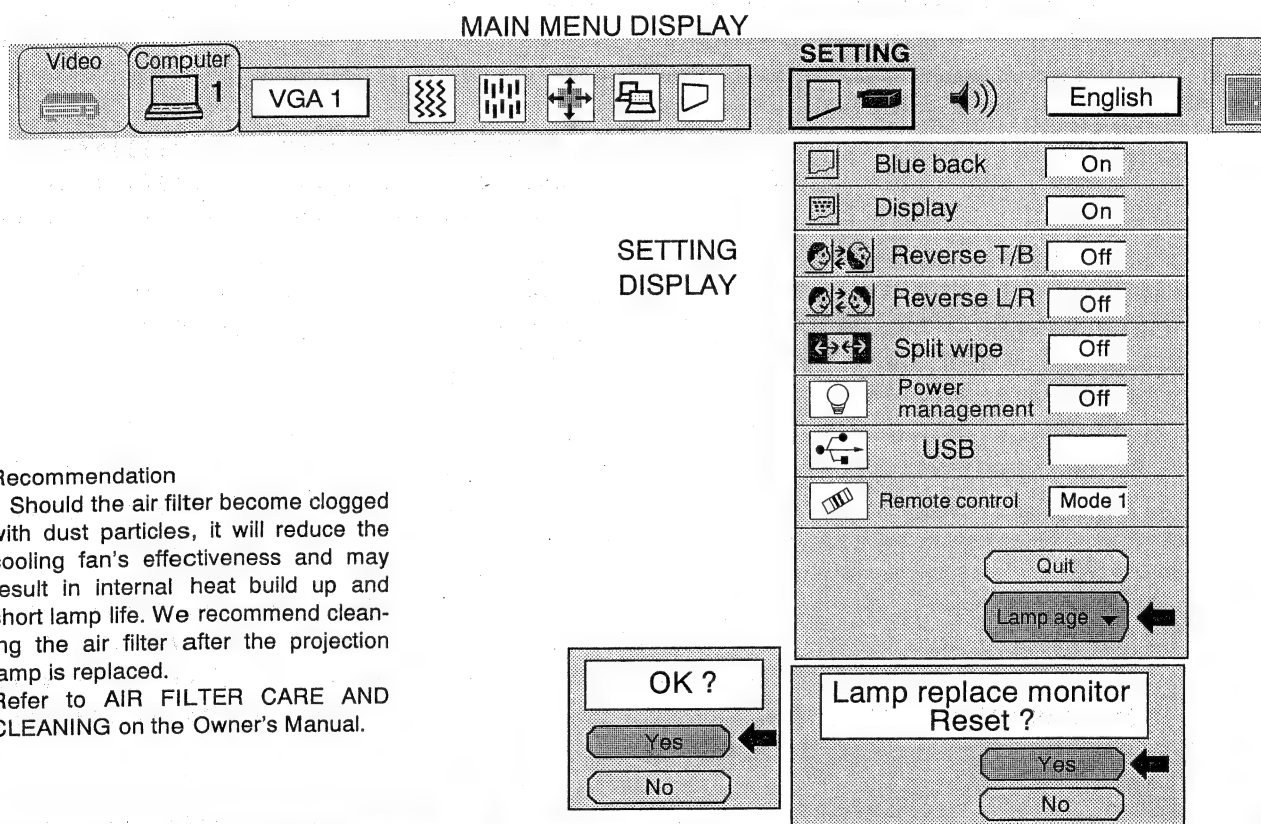
ALLOW TO COOL BEFORE ATTEMPTING TO CHANGE THE LAMP  
USE ONLY REPLACEMENT LAMP PART NO. 610 282 2755

## Lamp ass'y replacement

### ♣ RESET THE LAMP REPLACEMENT MONITOR TIMER.

NOTE: Do not reset the LAMP REPLACEMENT MONITOR TIMER, except after the lamp is replaced.

1. Press the MENU BUTTON and the MAIN MENU DISPLAY dialog box will appear.
2. Press the POINT LEFT/RIGHT BUTTON(s) to select SETTING and press the SELECT BUTTON. Another dialog box SETTING DISPLAY will appear.
3. Press the POINT DOWN BUTTON and a red arrow will appear.
4. Move the arrow by pressing the POINT UP/DOWN BUTTON(s) to select Lamp age and then press the SELECT BUTTON. When you reset the lamp replace monitor, "lamp replace monitor reset?" is displayed for confirmation.
5. Move the arrow to Yes and then press the SELECT BUTTON, "OK?" is displayed for confirmation. Move the arrow to Yes and then press the SELECT BUTTON, the lamp replace monitor is reset.
6. Move the arrow to No and then press the SELECT BUTTON. The lamp replace monitor is not reset.
7. To quit the MENU, move the arrow to Quit and then press the SELECT BUTTON.

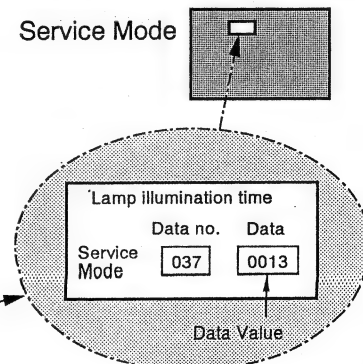


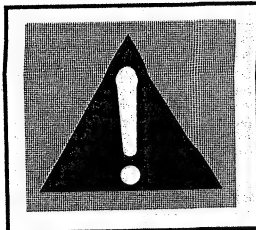
### NOTE :

#### HOW TO CHECK THE LAMP ILLUMINATION TIME

- With the projector in operating mode, press and hold the POINT UP button for 20 seconds, service mode display will appear on the screen.
- Illumination time=Data Value  
Example Illumination time is 13 hours.
- Press the "POWER ON OFF" button to quit the service mode.

Service Mode





## SAFETY INSTRUCTIONS

### [ SAFETY PRECAUTIONS ]

**WARNING:** The chassis of this projector is isolated (COLD) from AC line by using the converter transformer. Primary side of the converter transformer and lamp power supply unit circuit is connected to the AC line and it is hot, which hot circuit is identified with the line in the schematic diagram. For continued product safety and protection of personnel injury, servicing should be made with qualified personnel.

The following precautions must be observed:

1. An isolation transformer should be connected in the power line between the projector and the AC line before any service is performed on the projector.
2. Comply with all caution and safety - related notes provided on the cabinet back, cabinet bottom, inside the cabinet or on the chassis.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as control knobs, adjustment covers or shields and barriers.

**DO NOT OPERATE THIS PROJECTOR WITHOUT THE PROTECTIVE SHIELD IN POSITION AND PROPERLY SECURED.**

4. Before replacing the cabinet cover, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any projector to the customer, the service personnel must perform the following safety checks and be sure that it is completely safe to operate without danger of electrical shock.

### [ PRODUCT SAFETY NOTICE ]

Product safety should be considered when a component replacement is made in any area of the projector. Components indicated by a mark (  $\Delta$  ) in the parts list and the schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of these parts must be made by exactly the same parts.

### [ SERVICE PERSONNEL ---- WARNING ]

**Eye damage may result from directly viewing the light produced by the Lamp used in this equipment.**

**Always turn off Lamp before opening cover. ultraviolet radiation eye protection required during this servicing.**

**Never turn the power on without the lamp to avoid electric - shock or damage of the devices since the stabilizer generates high voltages(  $\approx$  25kV) at its start.**

**Since the lamp is very high temperature during units operation. Replacement of the lamp should be done at least one hour after the power has been turned off, to allow the lamp cool - off.**

### [ DO NOT ATTEMPT TO SERVICING THE REMOTE CONTROL UNIT. ]

Laser Beam may be leaked out when in disassemble the Unit.

As the Laser Beam used in this Remote control unit is harmful to the eyes.

<p><b>CAUTION</b></p> <p>LASER RADIATION - DO NOT STARE INTO BEAM</p> <p>MAX. OUTPUT : 1mW WAVE LENGTH : 850 <math>\pm</math> 20nm CLASS II LASER PRODUCT</p> <p>This product is complied with 21 CFR part 1040.10</p>	<p>LASER RADIATION DO NOT STARE INTO BEAM CLASS 2 LASER PRODUCT LASER STRAHLUNG NICHT IN DEN STRAHL BUCKEN LASER KLASSE 2 レーザー放射クラス2 レーザ製品 ビームをのぞきこまないこと IEC60825-1.Am.1.1997 MAX. OUTPUT(最大出力) : 1mW WAVE LENGTH(波長) : 850 <math>\pm</math> 20nm</p>
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## Circuit Protections

This projector is equipped with the following circuit protections to operate in safety. If the abnormality occurs inside the projector, it will automatically turn off by operating one of the following protection circuits.

### Fuse

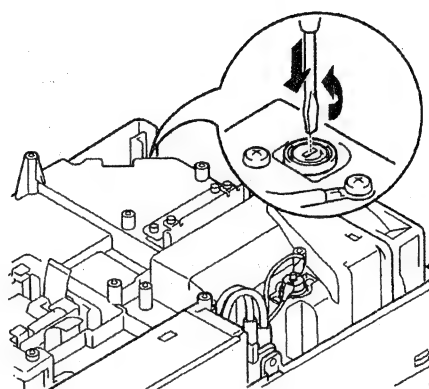
The fuse is located inside the projector. When the Mains switch on the rear panel is turned on and the lamp indicator does not illuminate, fuse may be open. Remove the cabinet and check the fuse.

It should be used the specified fuse as follows;

Fuse Part NO. : 423 021 7801  
TYPE T6 3AH 250V FUSE  
LITTLE FUSE INC. TYPE 21506.3

#### How to replace the fuse

1. Disassemble the cabinet and main unit.  
(Refer to Mechanical disassemblies.)
  2. To remove the fuse holder, press and turn left the fuse holder by using slot screwdriver.
- To install the fuse, take reversed step in the above.



### Thermal switch

If temperatures around the lamp reaches to 100 °C, the thermal switch(SW905) will be activated and shut off mains power supply.

Check the resistance between terminals of thermal switch by using the tester. If it has high impedance, thermal switch may be in operative.

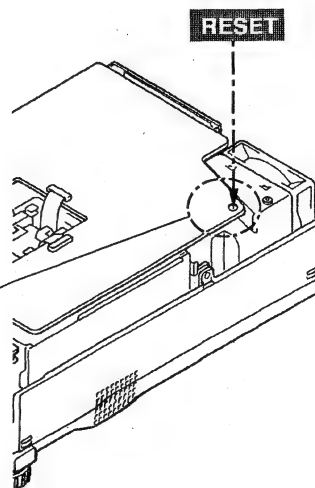
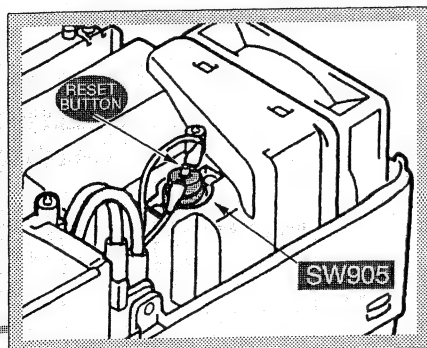
To return to normal operation, press the reset button on the thermal switch inside the projector as following procedure.

#### How to reset the thermal switch

1. Disassemble the cabinet.  
(Refer to Mechanical disassemblies.)
2. Press the reset button on thermal switch.

#### Caution:

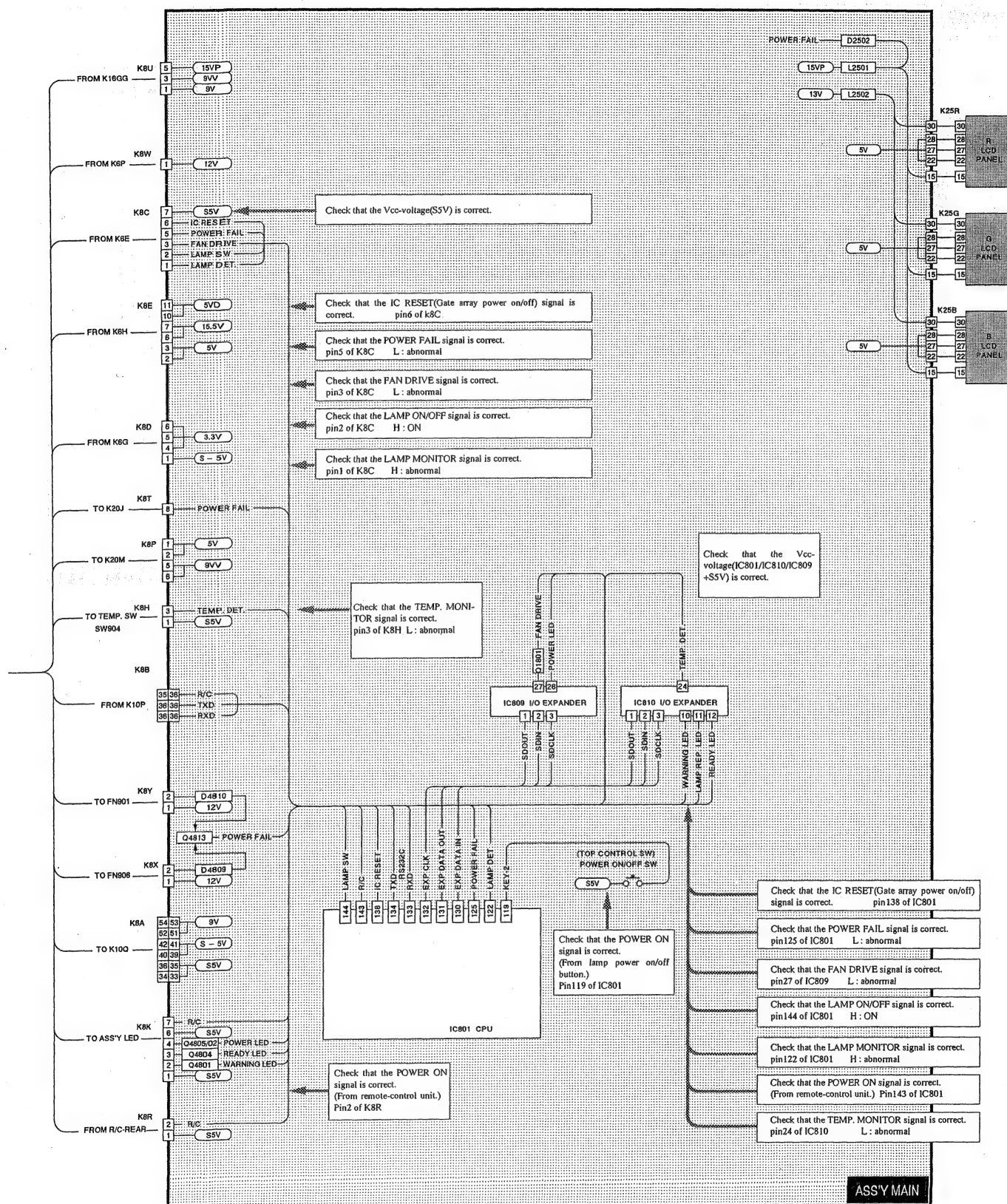
Before press the reset button, disconnect the AC cord from the projector.

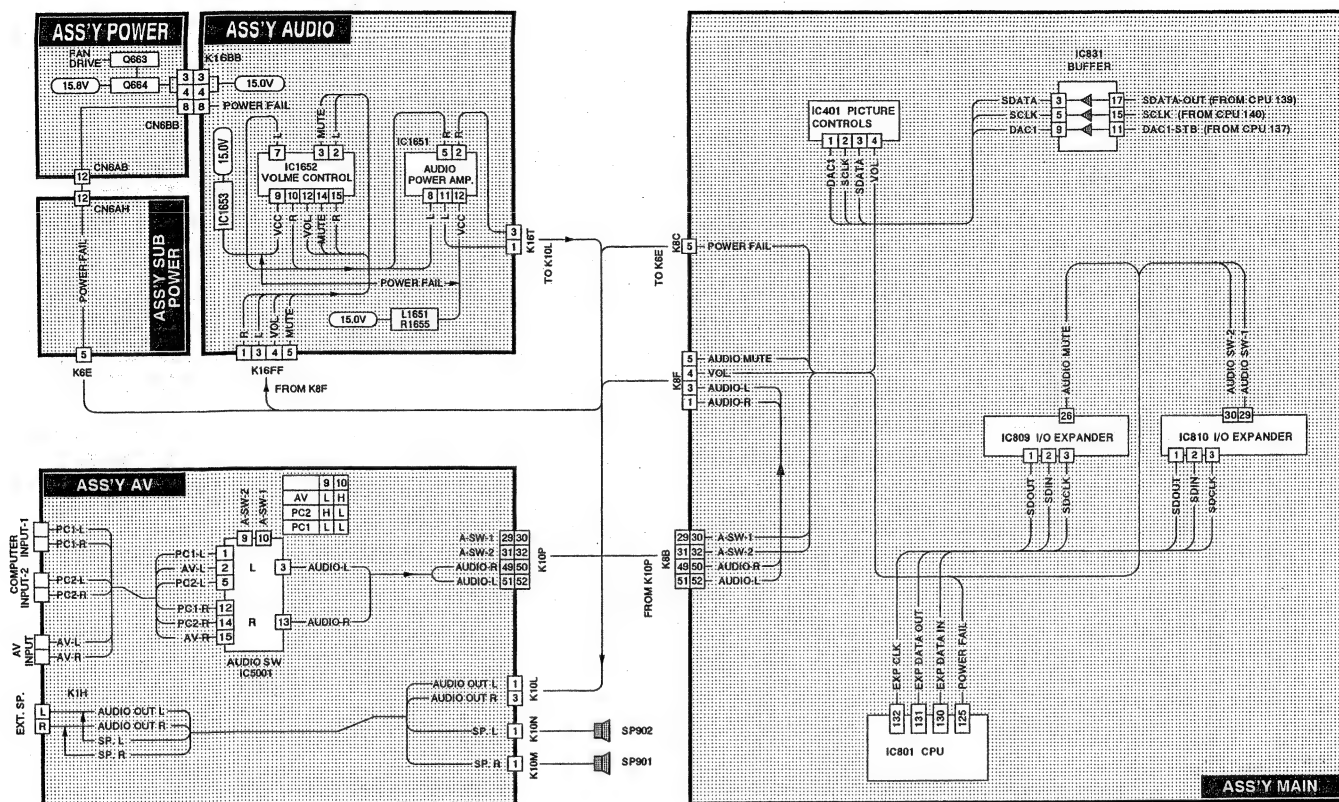


【NO POWER】

- ☐ LAMP MONITOR
- ☐ TEMPERATURE MONITOR
- ☐ POWER FAILURE







## ASS'Y AV

1. Check that the Vcc-voltage(Pin16 of IC5001 +9V) is correct.
2. Check that the Audio Select signal is correct.  
Pin9, 10 of IC5001 ..... Pin 9 :10  
AV L : H  
PC2 H : L  
PC1 L : L
3. Check the input and output signals at IC5001.
4. Check the input and output signals at K1H, K10L, K10N, K10M.

## ASS'Y MAIN

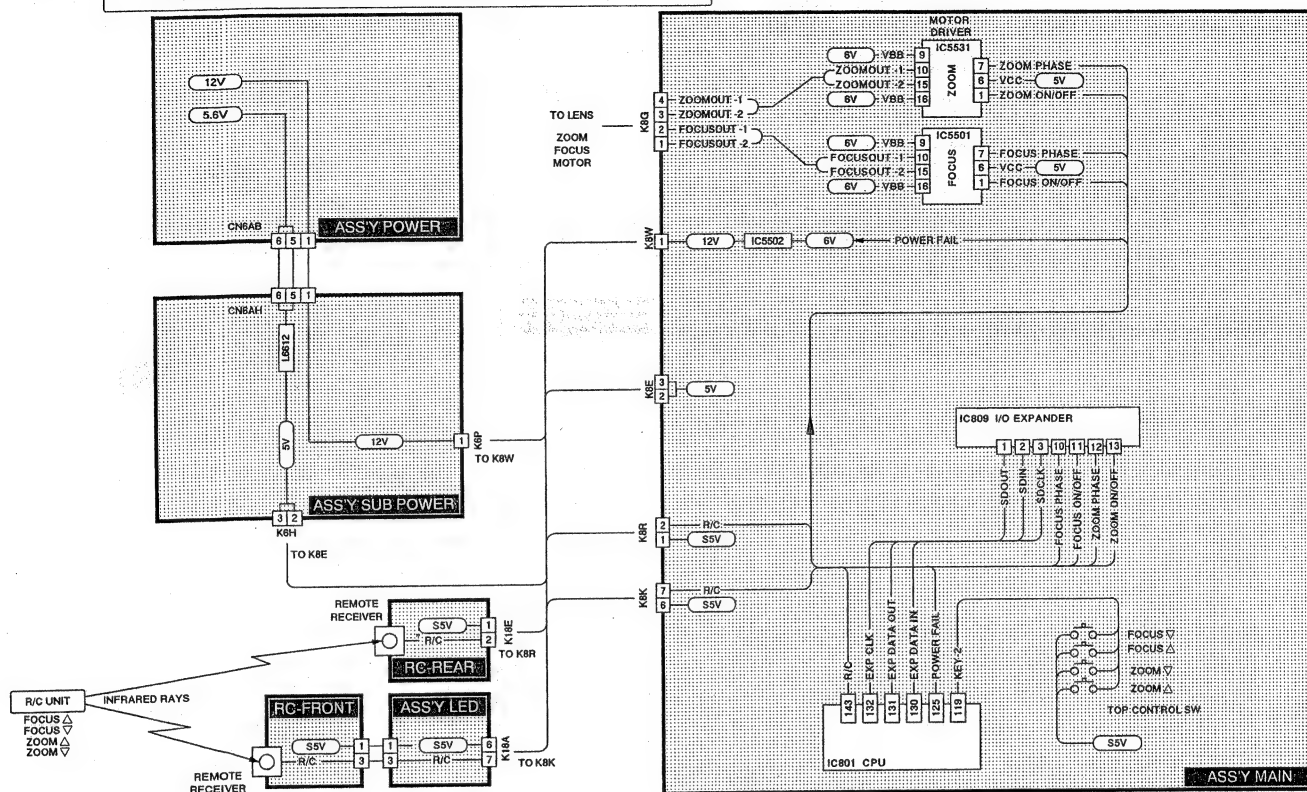
1. Check the input and output signals at Pin49~52 of K8B and Pin1, 3 of K8F.
2. Check that the Power Fail signal is correct (Pin5 of K8C and Pin130 of IC801).
3. Check that the Audio Mute signal is correct (Pin5 of K8F and Pin26 of IC809).
4. Check that the Volume  $\Delta \nabla$  signal is correct (Pin4 of K8F and Pin4 of IC401).
5. Check that the Audio Select signals are correct (Pin29~32 of K8B and Pin29, 30 of IC810). ..... IC810 Pin 30 :29  
AV L : H  
PC2 H : L  
PC1 L : L

## ASS'Y AUDIO

1. Check that the Vcc-voltages are correct (Pin9 of IC1652 and Pin12 of IC1651).
2. Check the Audio signals at Pin1, 3 of K16FF and Pin2, 15 of IC1652.
3. Check the Audio signals at Pin7, 10 of IC1652 and Pin5, 8 of IC1651.
4. Check the Audio Output signals at Pin2, 11 of IC1651 and Pin1, 3 of K16T.
5. Check that the Power Fail signal is correct (Pin8 of K16BB).
6. Check that the Audio Mute signal is correct (Pin5 of K16FF and Pin3, 14 of IC1652).
7. Check that the Volume  $\Delta \nabla$  signal is correct (Pin4 of K16FF and Pin12 of IC1652).



## POWER ZOOM and FOCUS LENS SYSTEM



## ASS'Y MAIN

1. Check that the Vcc and Vbb voltages are correct.  
VCC (Logic supply) Pin6 of IC5501 and IC5531  
VBB (Load supply) Pin9, 16 of IC5501 and IC5531
2. Check that the FOCUS, ZOOM  $\Delta$   $\nabla$  signal is correct.  
Pin119 of IC801 (From Top Control SW.)
3. Check that the POWER FAIL signal is correct.  
Pin125 of IC801 ..... H: Normal
4. Check that the FOCUS, ZOOM  $\Delta$   $\nabla$  signals are correct.  
Pin143 of IC801 (From remote-control unit.)
5. Check that the FOCUS and ZOOM on/off signals are correct.  
Pin11, 13 of IC809.
6. Check that the FOCUS and ZOOM Phase signals are correct.  
Pin10, 12 of IC809.
7. Check that the FOCUS and ZOOM on/off signals are correct.  
Pin1 of IC5501 and IC5531.
8. Check that the FOCUS and ZOOM Phase signals are correct.  
Pin7 of IC5501 and IC5531.
9. Check that the FOCUS Output signals are correct.  
Pin10, 15 of IC5501 and Pin1, 2 of K8G.
10. Check that the ZOOM Output signals are correct.  
Pin10, 15 of IC5531 and Pin3, 4 of K8G.

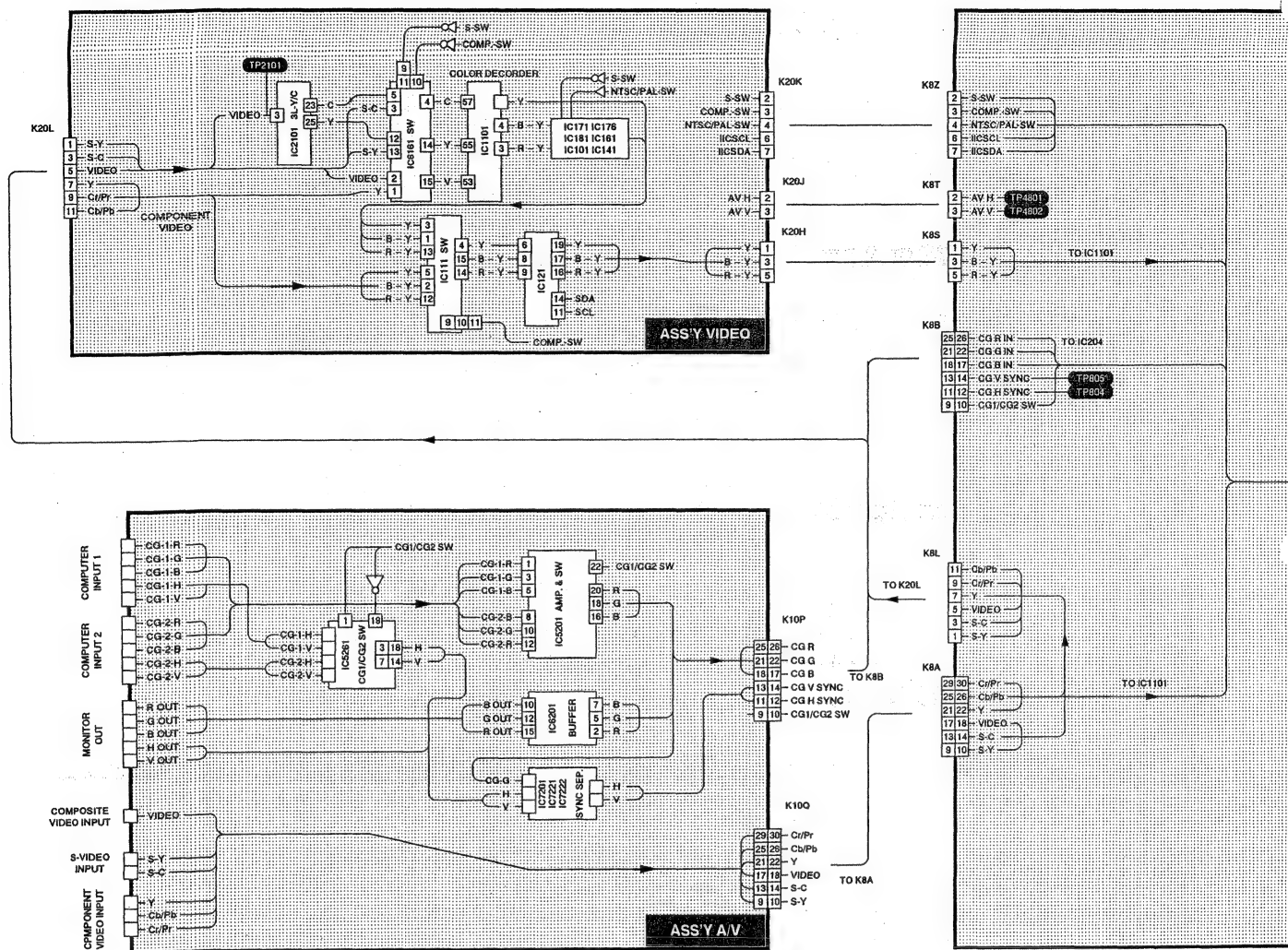
## TRUTH TABLE

### IC5501/IC5531

INPUT		OUTPUT		OPERATION
ON/OFF	Phase	10	15	
H	H	H	L	Forward(reverse) drive
H	L	L	H	Reverse(forward) drive
L	—	L	L	Braking

# 【 NO PICTURE 】

## [ Troubleshooting ]



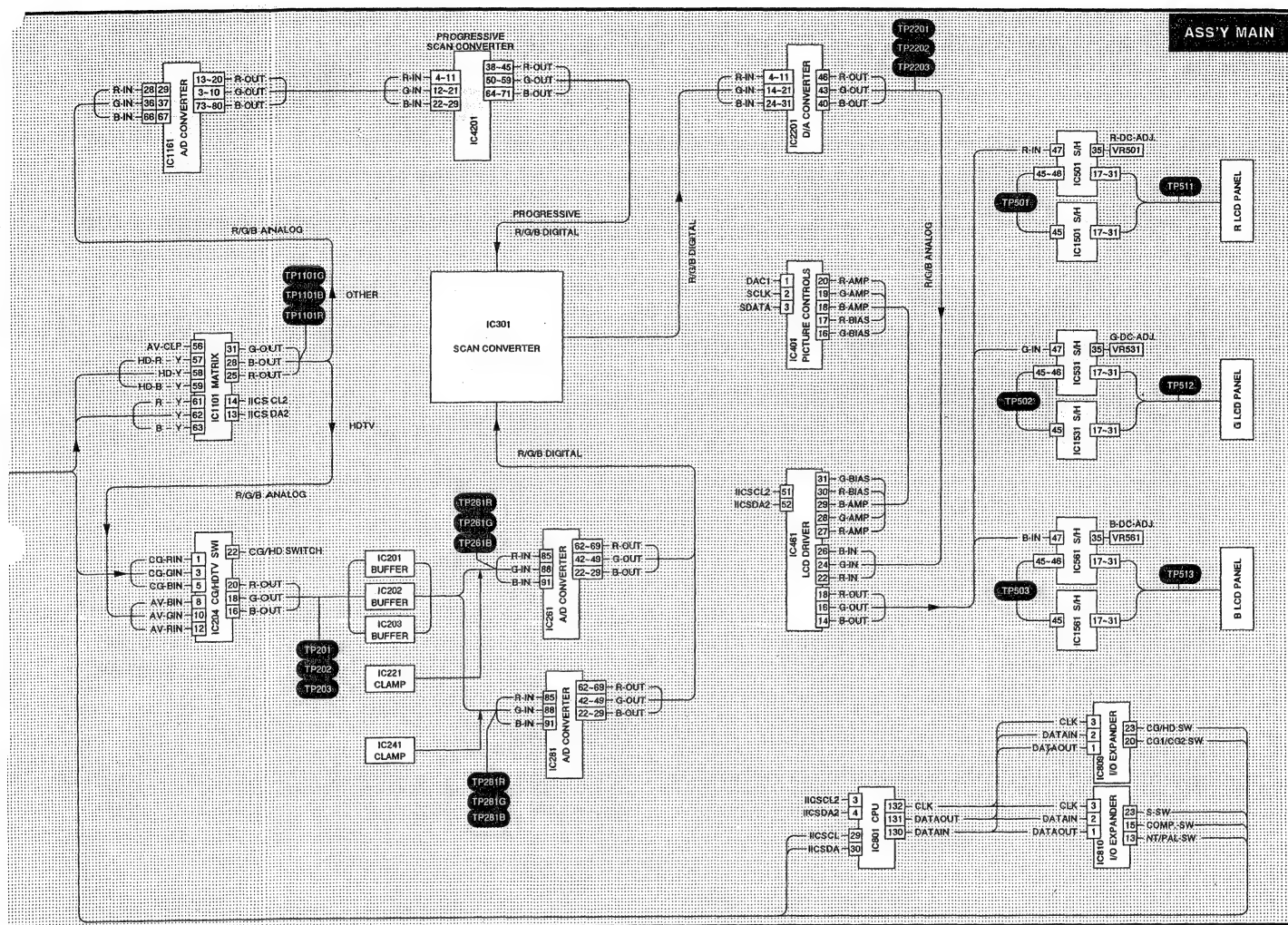
### ASS'Y AV

1. Check that the Vcc-voltages are correct. (IC5261, IC5201, etc)
2. Check the input and output signals at IC5201.
3. Check the input and output signals at IC5261.
4. Check the input and output signals at IC6201.
5. Check the input and output signals at IC7201/7221/7222.
6. Check the output signals at K10Q.

### ASS'Y VIDEO

1. Check that the Vcc-voltages(5V, 9V) are correct.
2. Check the signals at TP2101. (Composite-video)
3. Check that the S-SW signal is correct.  
Composite-video=H / S-video=L
4. Check that the COMP.SW signal is correct.  
Composite and S-Video=H / Component-video=L
5. Check that the NTSC/PAL-SW signal is correct.  
NTSC=H / PAL=L
6. Check the input and output signals at IC111.  
Check the input and output signals at IC121.
7. Check the H-SYNC signal. (Pin2 of K20J)  
Check the V-SYNC signal. (Pin3 of K20J)
8. Check that the SDA SCL signals are correct.  
PIN14 of IC121 SDA  
PIN11 of IC121 SCL



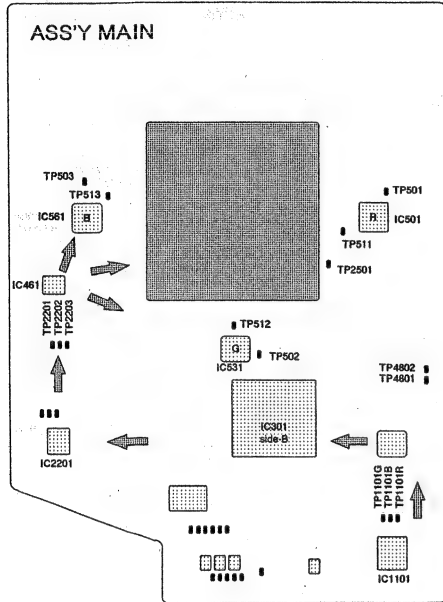


## ASS'Y MAIN

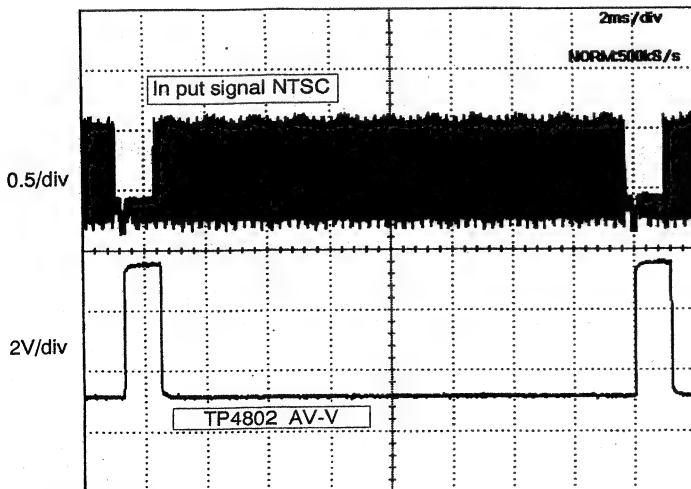
1. Check the Vcc-voltages at all IC.
2. Check that the S-SW signal is correct.  
Composite-video=H / S-video=L
3. Check that the COMP.SW signal is correct.  
Composite and S-Video=H / Component-video=L
4. Check that the NTSC/PAL-SW signal is correct.  
NTSC=H / PAL=L
5. Check the AV H-SYNC signal. (TP4801)  
Check the AV V-SYNC signal. (TP4802)
6. Check the CG H-SYNC signal. (TP804)  
Check the CG V-SYNC signal. (TP805)
7. Check that the SDA and SCL signals are correct.  
PIN30 of IC801 SDA  
PIN29 of IC801 SCL
8. Check that the CG1/CG2 SELECT signal is correct.  
Pin20 of IC809.
9. Check that the CG/HD SELECT signal is correct.  
Pin23 of IC809.
10. Check the signals at TP1101R, TP1101G and TP1101B.
11. Check the signals at TP201, TP202 and TP203.
12. Check the signals at TP261R, TP261G and TP261B.
13. Check the signals at TP281R, TP281G and TP281B.
14. Check the signals at TP2201, TP2202 and TP2203.
15. Check the signals at TP501, TP502 and TP503.
16. Check the signals at TP511, TP512 and TP513.

# Waveforms

Point of measurement



2ms/div



In put signal  
NTSC  
0.5V/div

TP4801  
AV-H  
1V/div

IC1101-62  
Y  
0.5V/div

IC1101-61  
R-Y  
0.5V/div

IC1101-63  
B-Y  
0.5V/div

TP1101R  
R  
0.5V/div

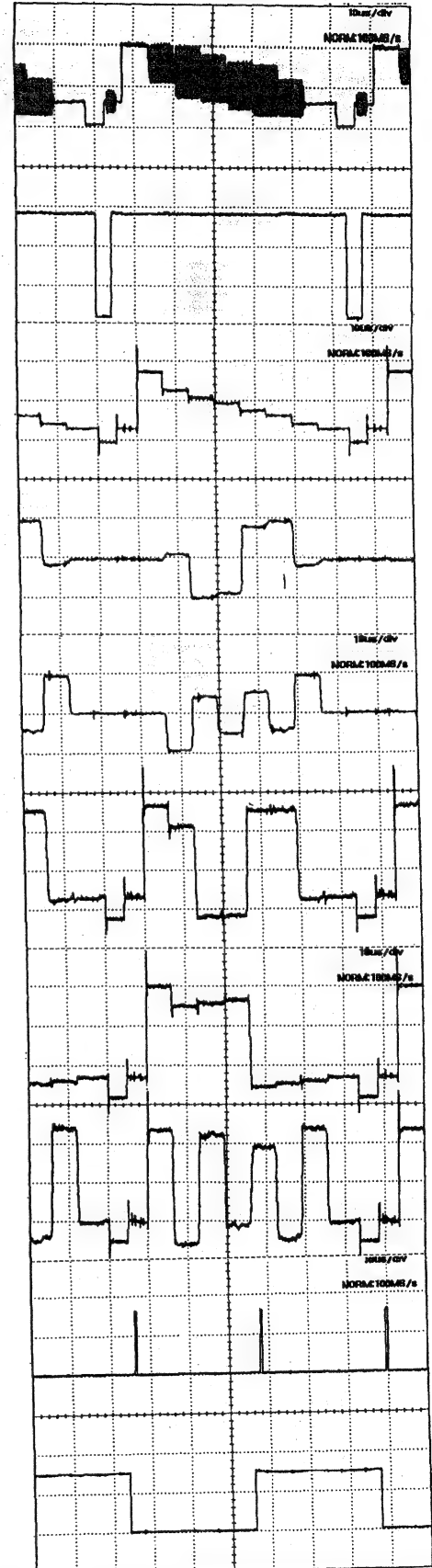
TP1101G  
G  
0.5V/div

TP1101B  
B  
0.5V/div

TP4206  
2V/div

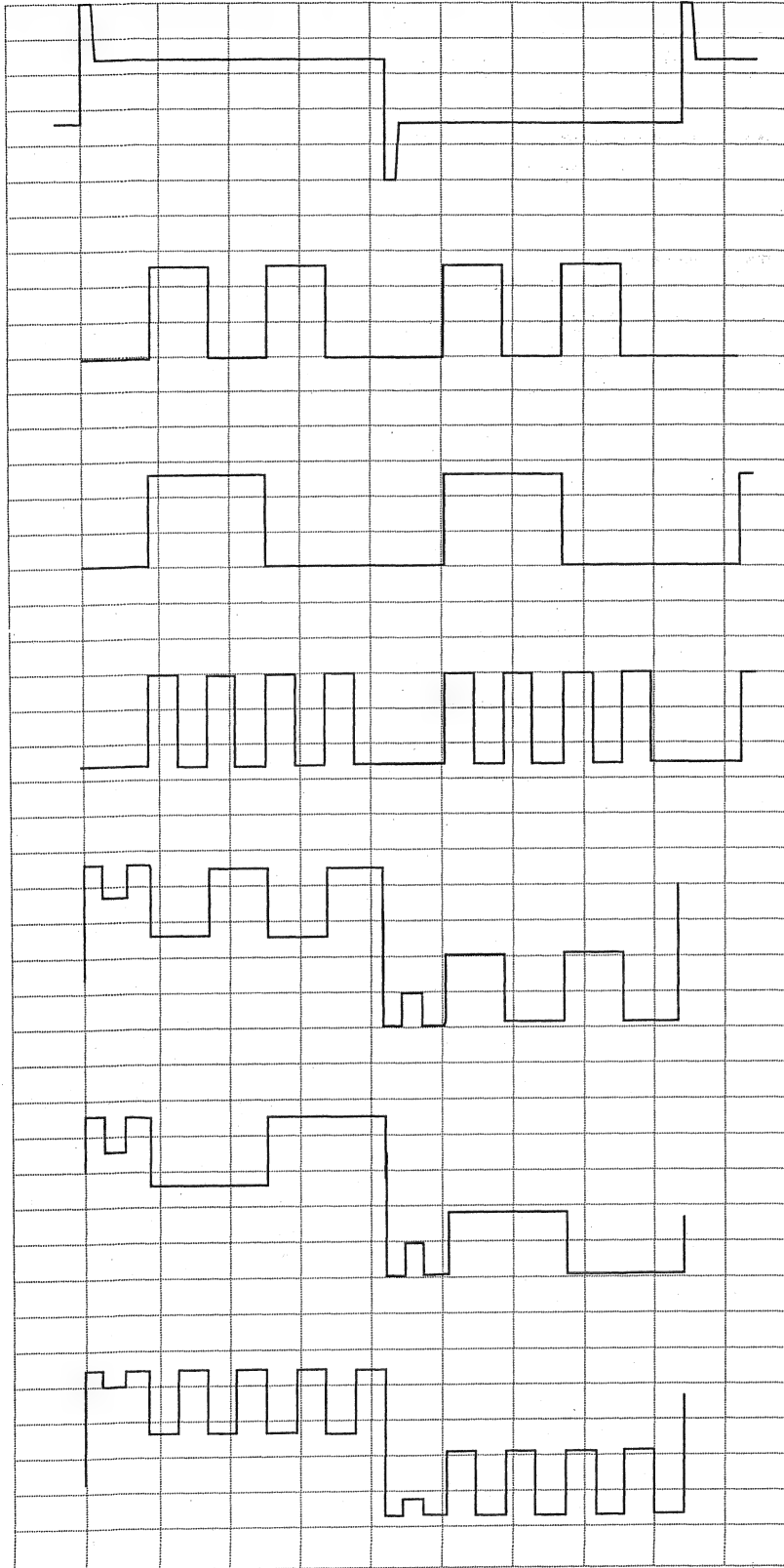
TP4203  
2V/div

10  $\mu$ s/div



# Waveforms

5  $\mu$  s / div



TP-2501  
PSIG

2.0V / div

TP-2201  
R

0.5V / div

TP-2202  
G

0.5V / div

TP-2203  
B

0.5V / div

TP-501  
TP-511  
R

2.0V / div

TP-502  
TP-512

G

2.0V / div

TP-503  
TP-513

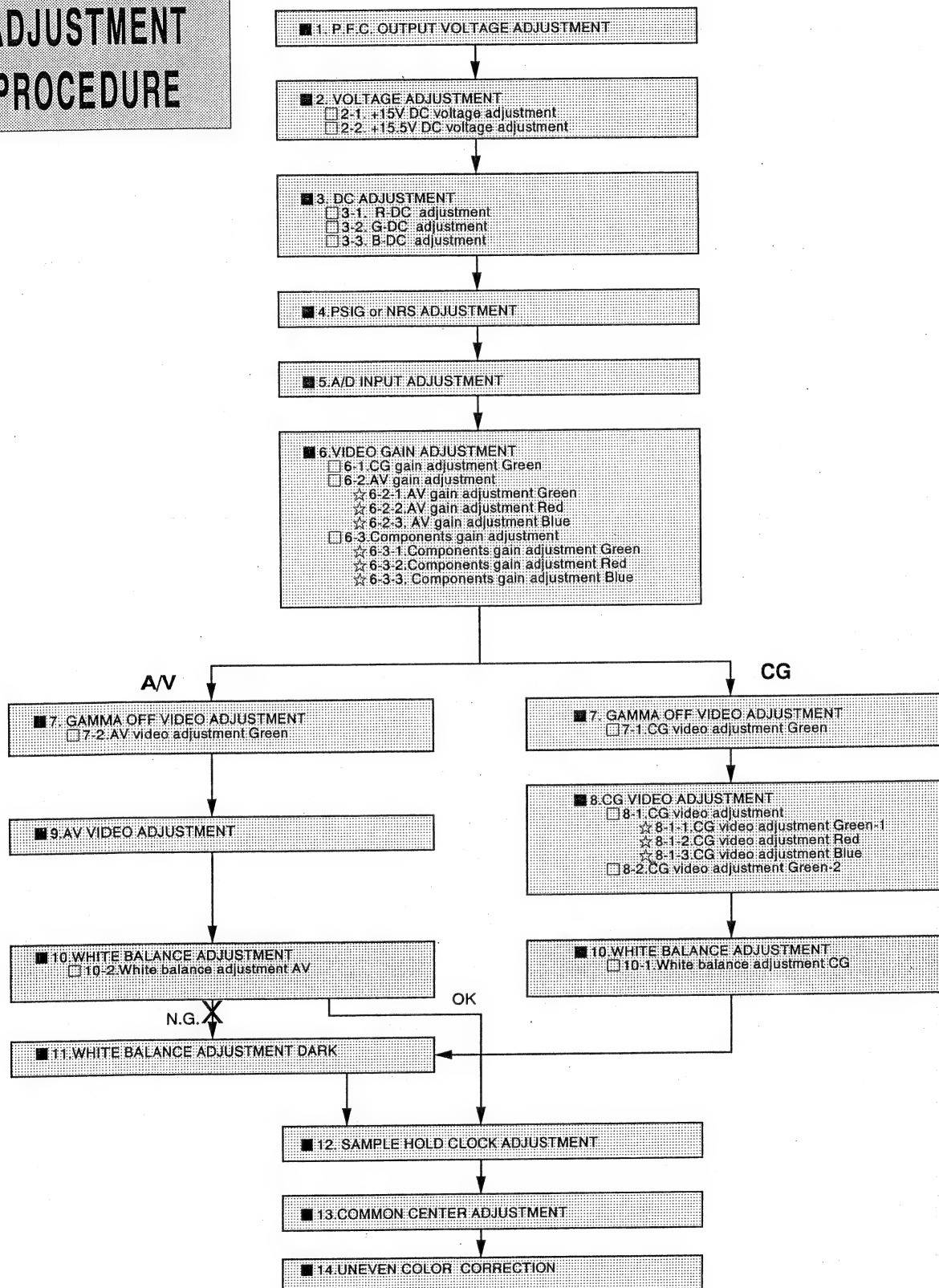
B

2.0V / div

# Alignment Procedures

## ELECTRICAL ADJUSTMENTS

### ADJUSTMENT PROCEDURE



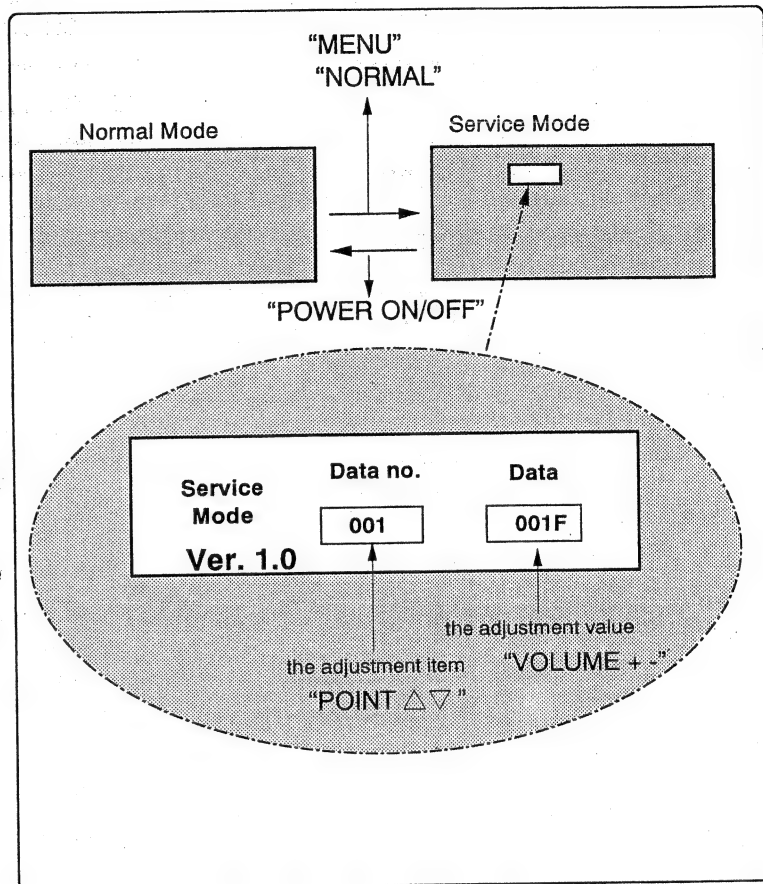
## ■ SERVICE MODE OPERATION

■ To change the mode from the Normal mode to the Service mode by pressing the "MENU" and "NORMAL" buttons on the projector simultaneously and hold for 3 seconds.

■ Press the "POWER ON/OFF" button on the projector or remote control unit to quit the service mode.

■ Adjust the service data with the following control buttons.

1. Press the "POINT  $\triangle \nabla$ " buttons on the projector to change the adjustment item.
2. Press the "VOLUME + -" buttons on the projector to adjust the data value.



### CAUTION

- EEP-ROM(IC806/481) memorizes the data adjusted at Service Mode, and should not be replaced except for the case of defective product.
- The Uneven Color Correction data is memorized in IC481.
- Lamp Illumination Time, Data No. 37 of Service Mode, is memorized in IC806 to indicate the span of Lamp Life. When IC806 is replaced, Lamp Illumination Time is reset at the same time. Lamp Illumination Time can not be set to the previous value.

■ CAUTION: Do not replace EEP-ROM(IC806/481) unreasonably!!

### ■ Caution to replace ass'y main.

(In the case Eep-Roms are not damaged.)

When Ass'y Main is replaced, Eep-Roms on new Ass'y Main should be replaced with the those on previous Ass'y Main.

☐ LAMP ILLUMINATION TIME keep the value as before.



## SERVICE MODE ADJUSTMENT MENU

DATA NO.	DATA NAME	ADJUSTMENT ITEM
00	DAC Sub Bright	CG video adjustment Green-1 AV VIDEO ADJUSTMENT
02	DAC RGB Bias	CG video adjustment Green-1 CG video adjustment Green-2 AV VIDEO ADJUSTMENT
03	DAC R Bias	White balance adjustment CG White balance adjustment AV
04	DAC B Bias	White balance adjustment CG White balance adjustment AV
07	RGB Amp. (Gamma off)	CG video adjustment Green AV video adjustment Green
0A	DLY CNT	SAMPLE HOLD CLOCK ADJUSTMENT
0C	Gamma Amp. R	CG video adjustment Red
0E	Gamma Amp. B	CG video adjustment Blue
10	Gamma R B1P AV	WHITE BALANCE ADJUSTMENT DARK
11	Gamma B B1P AV	WHITE BALANCE ADJUSTMENT DARK
16	----	AV gain adjustment Green Components gain adjustment Green
17	----	AV gain adjustment Red Components gain adjustment Red
18	----	AV gain adjustment Blue Components gain adjustment Blue
20	dac r com	COMMON CENTER ADJUSTMENT RED
21	dac g com	COMMON CENTER ADJUSTMENT GREEN
22	dac b com	COMMON CENTER ADJUSTMENT BLUE
37	Lamp illumination time	Lamp illumination time (Read only)
57	Logo SW	Logo mark on/off ( 0000=off / 0001=on )
5B	RS232C Speed Option	RS232C Bit rate set (000=9600/0001=19200)
5D	AV Option	AV Mode on/off (0000=Comp. & AV/ 0001=Comp. Only)
C0	Uneven color correction	Correcting Operation Mode
C1	Uneven color correction	Correction Data Reset
CA	Uneven color correction	00FA=Correcting operation effective/007A=off

**CAUTION**

Other adjustment items are not related to the service and maintenance,  
don't press VOLUME(+) (-) buttons when the those items.



## 1. P.F.C. OUTPUT VOLTAGE ADJUSTMENT

Equipment ..... Digital voltmeter  
Connections ..... + K6B pin1  
..... - K6B pin3

Ac input voltage ..... 230V AC  
Adjustment: By using VR01, adjust P.F.C.  
output voltage to  $370 \pm 2.0V$  DC.

or  
Ac input voltage ..... 120V AC  
Adjustment: By using VR01, adjust P.F.C.  
output voltage to  $320 \pm 2.0V$  DC.

Caution;  
Connect the lamp and ass'y-lampballast  
when doing the adjustment.

※ NOTE ; P.F.C. .... Power Factor Correction

## 2. VOLTAGE ADJUSTMENT

### 2-1. +15V DC voltage adjustment

Equipment ..... Digital voltmeter  
Connections ..... + ; K6H pin6 (power board)  
..... - ; Chassis ground

Adjustment: By using VR661, adjust DC voltage to  
 $15.2 \pm 0.1V$  DC.

### 2-2. +15.5V DC voltage adjustment

Equipment ..... Digital voltmeter  
Connections ..... + ; K16GG pin5 (power board)  
..... - ; Chassis ground

Adjustment: By using VR663, adjust DC voltage to  
 $15.5 \pm 0.1V$  DC.

## 3. DC ADJUSTMENT

Equipment ..... Digital voltmeter  
Input mode ..... Computer  
Input signal ..... 16 Step gray scale signal  
Picture condition ..... Normal

### 3-1. R-DC adjustment

Connections ..... TP511 and Chassis ground  
Adjustment By using VR501, adjust DC voltage to  $7.5 \pm 0.1V$  DC.

### 3-2. G-DC adjustment

Connections ..... TP512 and Chassis ground  
Adjustment By using VR531, adjust DC voltage to  $7.5 \pm 0.1V$  DC.

### 3-3. B-DC adjustment

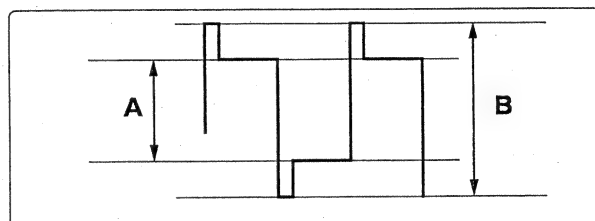
Connections ..... TP513 and Chassis ground  
Adjustment By using VR561, adjust DC voltage to  $7.5 \pm 0.1V$  DC.

## 4. PSIG ADJUSTMENT

Equipment ..... Oscilloscope  
Connections ..... TP2501 and Chassis ground  
Input mode ..... Computer  
Input signal ..... 16 Step gray scale signal  
Picture condition ..... Normal

Adjustments ;

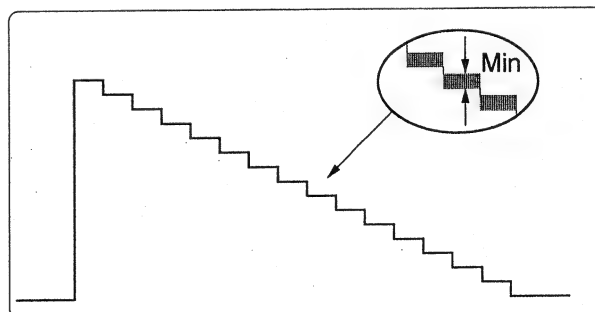
1. By using VR452, adjust amplitude A to be  $3.8 \pm 0.1V$  P-P.
2. By using VR451, adjust amplitude B to be  $10.0 \pm 0.1V$  P-P.



## 5. A/D INPUT ADJUSTMENT

Equipment ..... Oscilloscope  
Connections ..... TP2202 and Chassis ground  
Input mode ..... Computer  
Input signal ..... 16 Step gray scale signal  
Picture condition ..... Normal

Adjustment: By using VR281, adjust the amplitude of  
the noise level to minimum level.



## 6. VIDEO GAIN ADJUSTMENT

Equipment..... Oscilloscope  
 Input signal..... 16 Step gray scale signal  
 Picture condition..... Normal

### □ 6-1. CG gain adjustment Green

Connections..... TP2202 and chassis ground  
 Input mode..... Computer  
 Adjustment ; By using VR2201, adjust amplitude A to be  $1.15 \pm 0.05V$  P-P.

### □ 6-2. AV gain adjustment

#### ☆ 6-2-1. AV gain adjustment Green

Connections..... TP2202 and chassis ground  
 Input signal..... Composite video  
 Input mode..... AV(Composite)  
 Adjustment Set service mode. Select Data no."16".  
 By using VOLUME + - buttons, adjust amplitude A to be  $1.15 \pm 0.05V$  P-P.

#### ☆ 6-2-2. AV gain adjustment Red

Connections..... TP2201 and chassis ground  
 Input signal..... Composite video  
 Input mode..... AV(Composite)  
 Adjustment Set service mode. Select Data no."17".  
 By using VOLUME + - buttons, adjust amplitude A to be  $1.15 \pm 0.05V$  P-P.

#### ☆ 6-2-3. AV gain adjustment Blue

Connections..... TP2203 and chassis ground  
 Input signal..... Composite video  
 Input mode..... AV(Composite)  
 Adjustment Set service mode. Select Data no."18".  
 By using VOLUME + - buttons, adjust amplitude A to be  $1.15 \pm 0.05V$  P-P.

### □ 6-3. Components gain adjustment

#### ☆ 6-3-1. Components gain adjustment Green

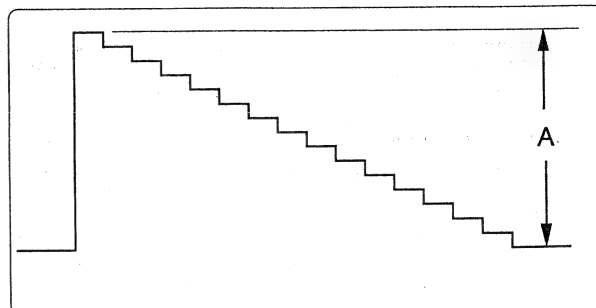
Connections..... TP2202 and chassis ground  
 Input signal..... Components video  
 Input mode..... AV(Components)  
 Adjustment Set service mode. Select Data no."16".  
 By using VOLUME + - buttons, adjust amplitude A to be  $1.15 \pm 0.05V$  P-P.

#### ☆ 6-3-2. Components gain adjustment Red

Connections..... TP2201 and chassis ground  
 Input signal..... Components video  
 Input mode..... AV(Components)  
 Adjustment Set service mode. Select Data no."17".  
 By using VOLUME + - buttons, adjust amplitude A to be  $1.15 \pm 0.05V$  P-P.

#### ☆ 6-3-3. Components gain adjustment Blue

Connections..... TP2203 and chassis ground  
 Input signal..... Components video  
 Input mode..... AV(Components)  
 Adjustment Set service mode. Select Data no."18".  
 By using VOLUME + - buttons, adjust amplitude A to be  $1.15 \pm 0.05V$  P-P.



## 7. GAMMA OFF VIDEO ADJUSTMENT

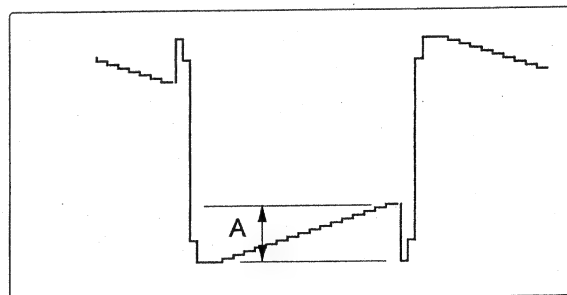
Equipment..... Oscilloscope  
 Input signal..... 16 Step gray scale signal  
 Picture condition..... Normal  
 Connections..... TP512 and chassis ground

### □ 7-1. CG video adjustment Green

Input signal and mode..... Computer  
 Adjustment Set service mode. Select Data no."07".  
 By using VOLUME + - buttons, adjust amplitude A to be  $1.50 \pm 0.05V$  P-P.

### □ 7-2. AV video adjustment Green

Input signal..... Composite video  
 Input mode..... AV(Composite)  
 Adjustment Set service mode. Select Data no."07".  
 By using VOLUME + - buttons, adjust amplitude A to be  $1.30 \pm 0.05V$  P-P.



## ■ 8. CG VIDEO ADJUSTMENT

Equipment..... Oscilloscope  
 Input mode ..... Computer  
 Input signal ..... 16 Step gray scale signal  
 Picture condition ..... Normal

### □ 8-1. CG video adjustment

#### ☆ 8-1-1. CG video adjustment Green-1

Connections ..... TP512 and chassis ground  
 Adjustment Set service mode. Select Data no."02".  
 By using VOLUME + - buttons, adjust  
 amplitude A to be  $1.0 \pm 0.2V$  P-P.  
 Select Data no."00". By using VOLUME +  
 - buttons, adjust amplitude B to be  $4.0 \pm$   
 $0.05V$  P-P.

#### ☆ 8-1-2. CG video adjustment Red

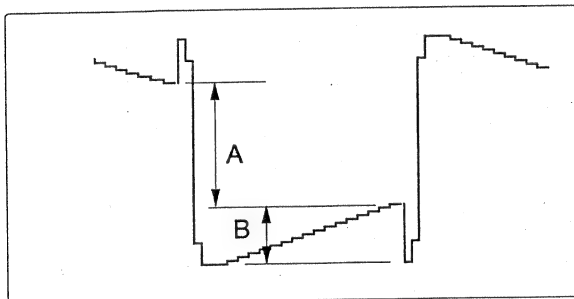
Connections ..... TP511 and chassis ground  
 Adjustment Set service mode. Select Data no."0C".  
 By using VOLUME + - buttons, adjust  
 amplitude B to be  $4.0 \pm 0.05V$  P-P.

#### ☆ 8-1-3. CG video adjustment Blue

Connections ..... TP513 and chassis ground  
 Adjustment Set service mode. Select Data no."0E".  
 By using VOLUME + - buttons, adjust  
 amplitude B to be  $4.0 \pm 0.05V$  P-P.

### □ 8-2. CG video adjustment Green-2

Connections ..... TP512 and chassis ground  
 Adjustment Set service mode. Select Data no."02".  
 By using VOLUME + - buttons, adjust  
 amplitude A to be  $1.90 \pm 0.05V$  P-P.



## ■ 9. AV VIDEO ADJUSTMENT

Equipment..... Oscilloscope  
 Input signal ..... 16 Step gray scale signal  
 Input mode ..... AV  
 Picture condition ..... Normal

### □ 9-1. AV video adjustment

#### ☆ 9-1-1. AV video adjustment Green-1

Connections ..... TP512 and chassis ground  
 Adjustment Set service mode. Select Data no."02".  
 By using VOLUME + - buttons, adjust  
 amplitude A to be  $1.0 \pm 0.2V$  P-P.  
 Select Data no."00". By using VOLUME +  
 - buttons, adjust amplitude B to be  $4.0 \pm$   
 $0.05V$  P-P.

#### ☆ 9-1-2. AV video adjustment Red

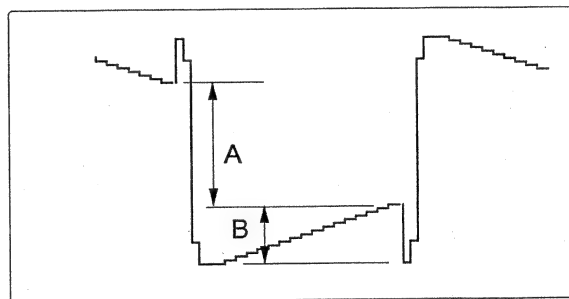
Connections ..... TP511 and chassis ground  
 Adjustment Set service mode. Select Data no."0C".  
 By using VOLUME + - buttons, adjust  
 amplitude B to be  $4.0 \pm 0.05V$  P-P.

#### ☆ 9-1-3. AV video adjustment Blue

Connections ..... TP513 and chassis ground  
 Adjustment Set service mode. Select Data no."0E".  
 By using VOLUME + - buttons, adjust  
 amplitude B to be  $4.0 \pm 0.05V$  P-P.

### □ 9-2. AV video adjustment Green-2

Connections ..... TP512 and chassis ground  
 Adjustment Set service mode. Select Data no."02".  
 By using VOLUME + - buttons, adjust  
 amplitude A to be  $1.90 \pm 0.05V$  P-P.



## 10. WHITE BALANCE ADJUSTMENT

Input signal ..... 16 Step gray scale signal  
Picture condition ..... Normal

Adjustments: By using service Data no. "03" (Red) and "04" (Blue).

### 10-1. White balance adjustment CG

Input mode and signal ..... Computer  
Set service mode. Select adjusting color to Red("03") or Blue("04"). By using VOLUME + - buttons, adjust the white balance.

### 10-2. White balance adjustment AV

Input mode and signal ..... AV  
Set service mode. Select adjusting color to Red("03") or Blue("04"). By using VOLUME + - buttons, adjust the white balance.

#### NOTE ;

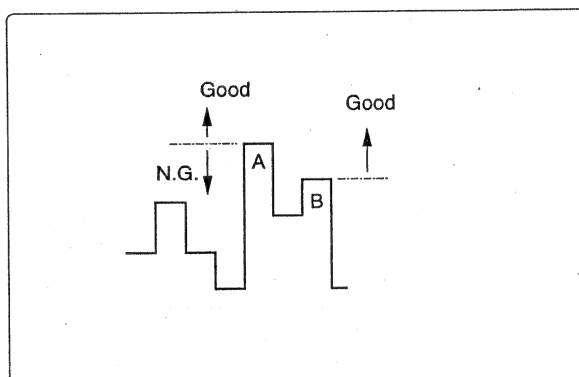
■ Adjust the white balance of Computer and AV mode to the same level.

■ Chromaticity coordinates(Color Temp.)  
X=0.280 Y=0.330

## 12. SAMPLE HOLD CLOCK ADJUSTMENT

Equipment ..... Oscilloscope  
Connections ..... TP512 and chassis ground  
Input mode ..... Computer  
Input signal ..... 16 Step gray scale or 100% white signal  
Picture condition ..... Normal

Adjustment Set service mode.  
Select Data no."0A".  
By using VOLUME + - buttons, set Data value "0005", then adjust amplitude A and B to maximum level.



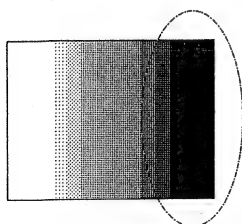
## 11. WHITE BALANCE ADJUSTMENT DARK

Input mode ..... AV  
Input signal ..... 16 Step gray scale signal  
Picture condition ..... Normal

#### Adjustment;

Set service mode. Select adjusting color to Red("10") or Blue("11"). By using VOLUME + - buttons, adjust the white balance of 16 Step gray scale dark side.

Dark side of 16 Step gray scale



## 13. COMMON CENTER ADJUSTMENT

Input signal ..... 16 Step gray scale computer signal  
Input mode ..... Computer  
Picture condition ..... Normal

Adjustments: ..... Set service mode.

RED ... Cover the G and B panel to cut the light transit.

Select Data no. "020".  
By using VOLUME + - buttons, adjust flicker to minimum level on picture.

GREEN Cover the R and B panel to cut the light transit.

Select Data no. "021".  
By using VOLUME + - buttons, adjust flicker to minimum level on picture.

BLUE .. Cover the R and G panel to cut the light transit.

Select Data no. "022".  
By using VOLUME + - buttons, adjust flicker to minimum level on picture.

## ■ 14. CORRECTION OF UNEVEN COLOR

- When the white or gray picture projected is uneven in color, or after the LCD panel is replaced, correct the unevenness of color as follows.

(The Correction data is memorized in the IC481 of the Main Unit. If the IC481 is replaced from the Main Unit to the new one when replacing the Unit, color correction is unnecessary.)

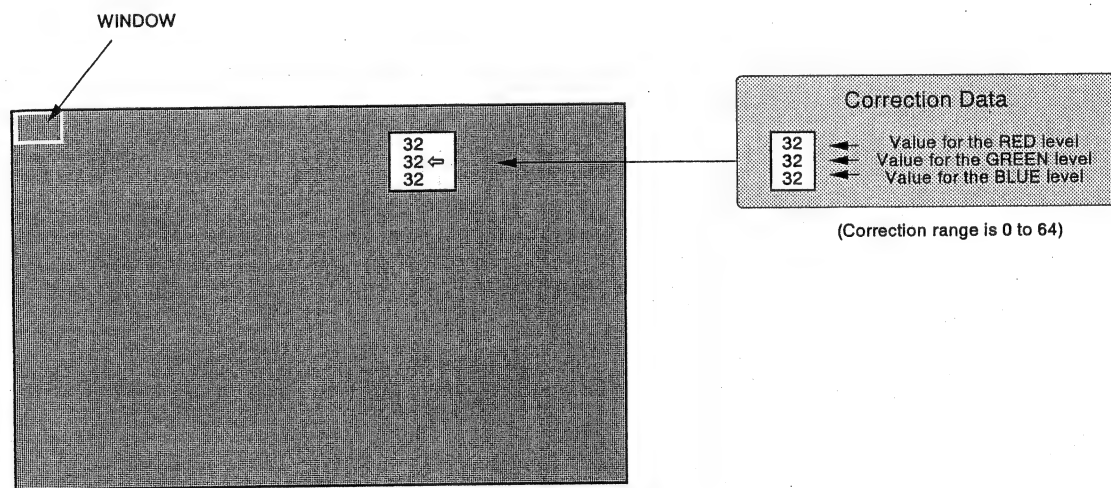
### ■ BEFORE OPERATION

1. Set both the Ceiling and the Rear function of the SETTING menu on the ON-SCREEN menu to "Off."
2. Turn the projector into Service mode, and set the Data No. to "0CA" and Data value to "00FA" to make the Correcting operation effective.
3. When replacing 2 LCD panels or more, the Correction data needs to be initialized.  
Set the Data No. to "0C1" and Data value to "0009" in Service mode by pressing VOLUME (+) button on the projector. And then, press VOLUME (+) button again to initialize the Correction data. (The each value of the correction data turns into "32.")  
CAUTION : Don't press VOLUME ( - ) button when the Data No. is "0C1."

### ■ CONDITION FOR CORRECTION

Input mode ..... AV or Computer  
Input signal ..... unnecessary  
Picture condition ..... Normal

1. Turn the projector into Service mode, and set the Data No. to "0C0."
2. Press the VOLUME (+) or (-) button on the projector, and the pattern for correction of uneven color is displayed as follows.



CORRECTION OF UNEVEN COLOR DISPLAY

3. Press the POINT UP / DOWN / LEFT / RIGHT buttons on the projector to move the WINDOW where to correct.
4. Adjust the White-Balance in the window on the screen with the following control buttons.  
Press the SELECT button on the projector to move the arrow where ( Red, Green or Blue ) to correct  
Press the VOLUME (+) (-) buttons on the projector to adjust the White Balance.
5. Press the MENU button on the projector to turn back to the Data No. 0C0 display in the Service mode.

## Focus Adjustment

When you replace all of LCD panels such as disassembly cleaning, etc., first adjust the G-LCD panel as the standard reference, after that, adjust the R-LCD panel and B-LCD panel focus adjustments.  
When you replaced one of LCD panels, adjust only the replaced LCD panel focus to put the un-replaced LCD panels focus.

### [Before adjustment]

- Input a grid pattern signal.
- Adjustment requires a 2.0mm hex driver and a slot screwdriver.

### [G-FOCUS ADJUSTMENT]

1. Insert paper etc. in Red and Blue panel to block the red and blue light so that only green light is projected.
2. Press the ZOOM (TELE) button to the "Tele" position (to reduce image size) and press the FOCUS (FAR) or (NEAR) button to the center of screen is in sharp focus.
3. Press the ZOOM (WIDE) button to "Wide" position (to increase image size).
4. Loosen the 4 screws "A" with the 2.0mm hex driver (Fig.1a).
5. Insert the slot type screwdriver in the slots ①, ② and ③/④ (Fig.1a) and gently turn the screwdriver until the each corner of screen is in sharp focus. The relation of adjustment points and screen corners are indicated with ①, ②, ③ and ④ shown in Fig.1a and Fig.2.
6. Press the ZOOM (TELE) button to the "Tele" position (to reduce image size) and check to see if sharp focus is retrained. If in sharp focus, adjustment is completed. If not, repeat steps 2 to 6.
7. Tighten the 4 screws "A" and securely attach the Green panel unit.

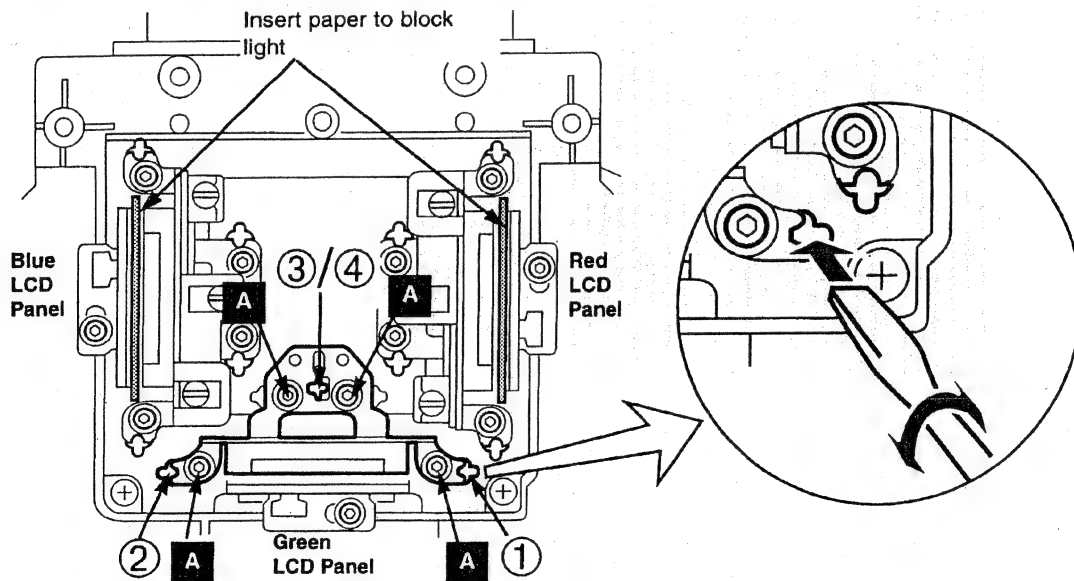


Fig.1a



## [R-FOCUS ADJUSTMENT]

1. Insert paper etc. in Red and Blue panel to block the red and blue light so that only green light is projected.
2. Press the ZOOM (WIDE) button to "Wide" position (to increase image size) and press the FOCUS (FAR) or (NEAR) button to make a picture in sharp focus.
3. Insert paper etc. in Blue and Green panel to block the blue and green light so that only red light is projected.
4. Loosen the 4 screws "B" with the 2.0mm hex driver, see Fig.1b.
5. Insert the slot type screwdriver in the slots ①, ②, ③ and ④ (Fig.1b) and gently turn the screwdriver until the each corner of screen is in sharp focus. The relation of adjustment points and screen corners are indicated with ①, ②, ③ and ④ shown in Fig.1b and Fig.2.
6. Tighten the 4 screws "B" and securely attach the Blue panel unit.

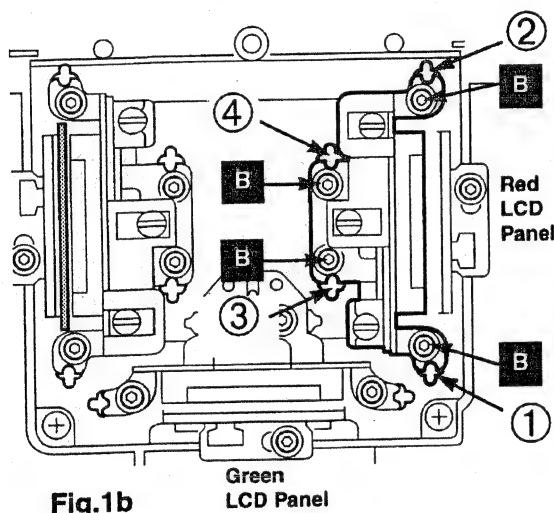


Fig.1b

## [B-FOCUS ADJUSTMENT]

1. Insert paper etc. in Red and Blue panel to block the red and blue light so that only green light is projected.
2. Press the ZOOM (WIDE) button to "Wide" position (to increase image size) and press the FOCUS (FAR) or (NEAR) button to make a picture in sharp focus.
3. Insert paper etc. in Red and Green panel to block the red and green light so that only blue light is projected.
4. Loosen the 4 screws "C" with the 2.0mm hex driver, see Fig.1c.
5. Insert the slot type screwdriver in the slots ①, ②, ③ and ④ (Fig.1c) and gently turn the screwdriver until the each corner of screen is in sharp focus. The relation of adjustment points and screen corners are indicated with ①, ②, ③ and ④ shown in Fig.1c and Fig.2.
6. Tighten the 4 screws "C" and securely attach the Blue panel unit.

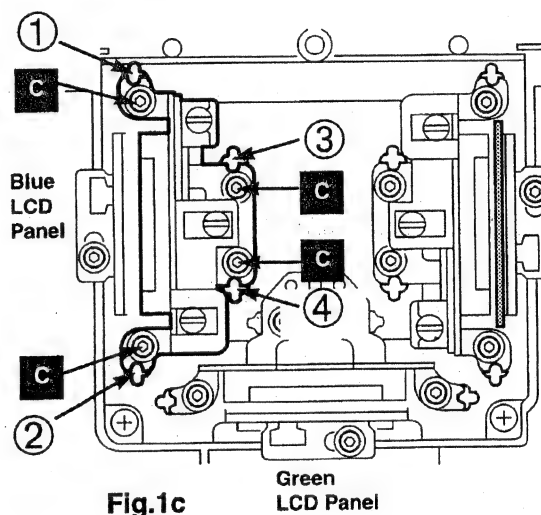


Fig.1c

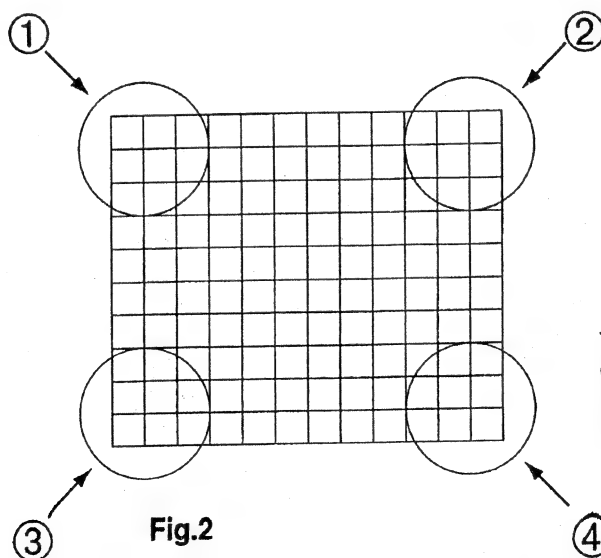


Fig.2

The numbers indicate the focus effective part when moving the numbered adjusting slots on Fig.1.

## Convergence Adjustment

For convergence adjustment, use Green as the reference standard. Align Red and Blue with Green by adjusting the position and angle of the Red and Blue LCD panels. Screws "A", "B", "C" (Fig.4, 7) are for convergence adjustment.

### [Before adjustment]

- Make sure each Red, Green and Blue LCD panel unit has been correctly installed, and that all focus adjustments have been completed before performing convergence adjustments.
- Input a grid pattern signal.
- Adjustment requires a 5.5mm spanner wrench and a slot screwdriver.

### Red (or Blue) Panel Adjustment

1. Insert paper, etc. into Blue (or Red) panel to block the Blue (or Red) light output.
2. Loosen the 2 screws "D" (Fig. 6) using the 5.5mm spanner wrench.
3. Turn the lines of convergence to be parallel to grid pattern by adjusting screw "A". ----- FIG.3
4. Move the lines of convergence horizontally to be matched with grid pattern by adjusting screw "B". ----- FIG.4
5. Adjust the lines to be completely matched with grid pattern by taking step 3 and 4.
6. Move the lines of convergence vertically to be matched with grid pattern by adjusting screw "C". ----- FIG.5
7. Adjust the lines to be completely matched with grid pattern by taking step 3 and 6.
8. Tighten the 2 screws "D" (previously loosened in step 2 above) with the 5.5mm spanner wrench.
9. After tightening the screws, check convergence. If not aligned, repeat steps 2 through 8 above.

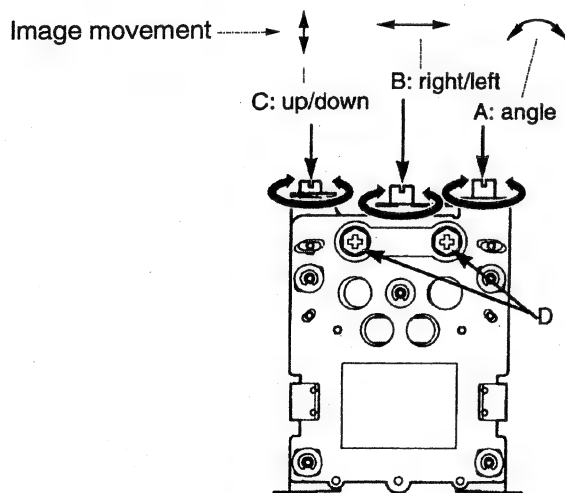
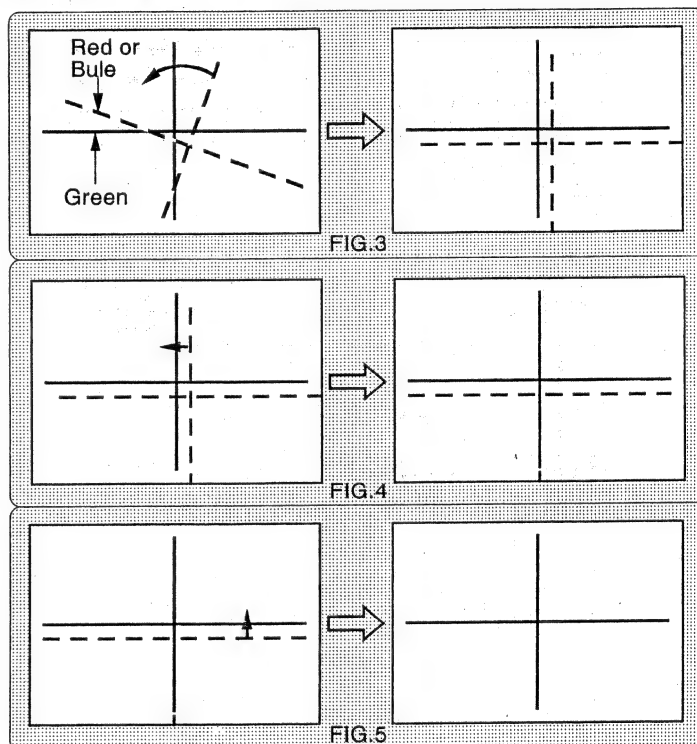


Fig.6

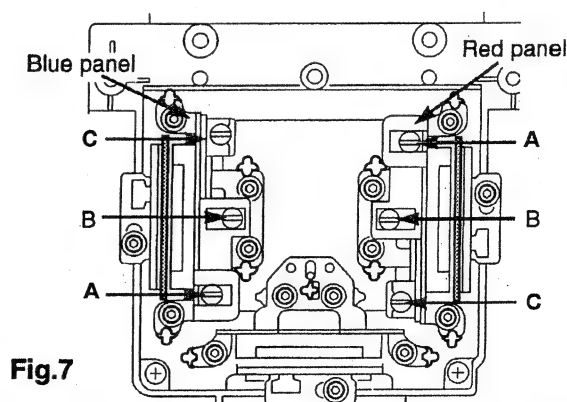


Fig.7

## Integrator Lens Adjustment

### [Before Adjustment]

- Adjustment requires a 2.5mm hex driver and a slot screwdriver.
- Remove cabinet top, cabinet front and Main Unit following to "Cabinet Disassemblies".
- Disconnect the connectors K8Q, K8P, K8R and FPC cable of LCD panels on the main unit.
- Remove temperature sensor (SW904) on the optical base.

Note: Do not disconnect connector "K8H" (Temperature sensor) on the main unit otherwise the projector can not be turned on.

### [ADJUSTMENT]

1. Turn on lamp by a state of without FPC cable of LCD panels.
2. Set the size of a screen in about 40 inches.
3. Insert paper etc. in Red and Blue panel to block the red and blue light so that green light is projected and make a fine focus.
4. Insert paper etc. in Blue panel to block the blue light so that red and green lights are projected.
5. Loosen 3 screws "B" with the 2.0mm hex driver(Fig.9)
6. Adjust the adjustment base of integrator lens assy to make color uniformity in yellow.
  - 1) If the un-uniform color appears on the left or right of the screen as shown in Fig.8-1, adjust a slot "A" to make color uniformity in yellow by using a slot screwdriver.
  - 2) If the un-uniform color appears on the top or bottom of the screen as shown in Fig.8-2, adjust the 2 screws "C" to make color uniformity in yellow.
7. Tighten the 3 screws "B" to fix the integrator lens unit.

Note:

The relay lens adjustment must be carried out after completing this adjustment.

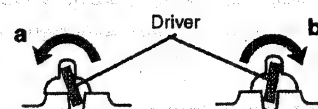
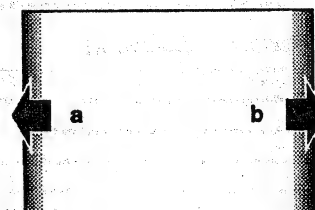


Fig.8-1

Moving of slot A

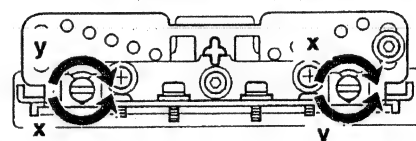
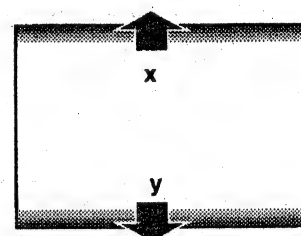


Fig.8-2

Moving of screws C

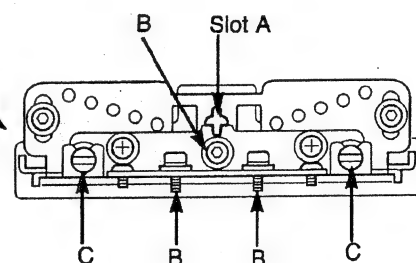
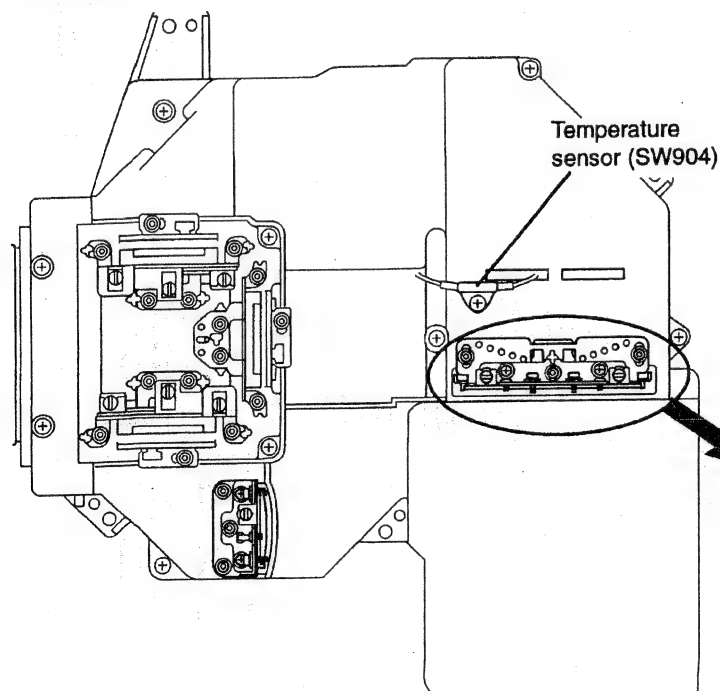


Fig.9

## Relay Lens Adjustment

### [Before Adjustment]

- Adjustment requires a 2.0mm hex driver and a slot screwdriver.
- Remove cabinet top, cabinet front and Main Unit following to "Cabinet Disassemblies".
- Disconnect the connectors K8Q, K8P, K8R and FPC cable of LCD panels on the main unit.
- Remove temperature sensor (SW904) on the optical base.

Note: Do not disconnect connector "K8H" (Temperature sensor) on the main unit otherwise the projector can not be turned on.

### [ADJUSTMENT]

1. Turn on lamp by a state of without FPC cable of LCD panels.
2. Set the size of a screen in about 40 inches.
3. Adjust the adjustment base of relay lens assy to make color uniformity in white.
  - 1) If the un-uniform color appears on the left or right of the screen as shown in Fig.10-1, loosen a screw "C" with the 2.5mm hex driver(Fig.11) and adjust the slot "D" to make color uniformity in white by using a slot screwdriver.
  - 2) If the un-uniform color appears on the top or bottom of the screen as shown in Fig.10-2, loosen 2 screws "A" with the 2.5mm hex driver(Fig.11) and adjust the screw "B" to make color uniformity in white.
4. Tighten the 2 screws "A" and screw "C" to fix the relay lens unit.

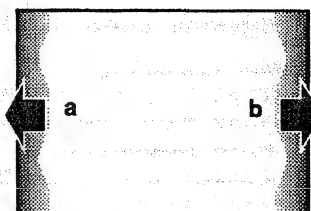


Fig.10-1

Moving of slot D

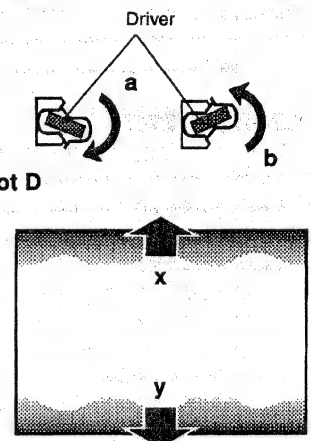


Fig.10-2

Moving of screw B

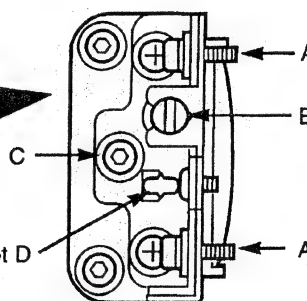
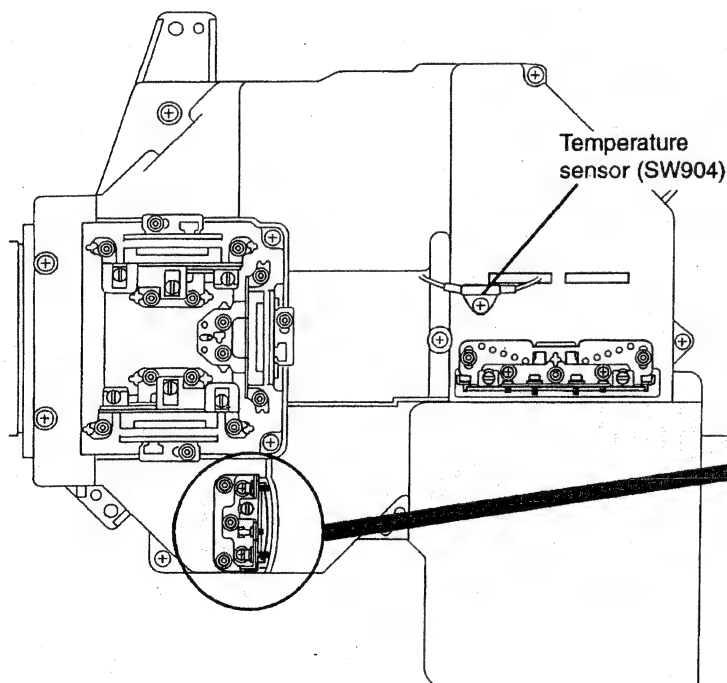
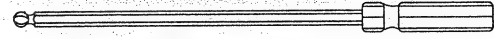


Fig.11

## Polarized Glass Adjustment

[Before Adjustment]

- Adjustment requires a 2.0mm Ball allen driver.
- Input a 100% of black raster signal.



2.0mm Ball allen driver.

### ■ R/G/B Polarized glass adjustment

1. Red ——— Cover the G and B panel to cut the light transit.
- Green ——— Cover the R and B panel to cut the light transit.
- Blue ——— Cover the G and R panel to cut the light transit.
2. Loosen a screw "A" (Fig. 12) on the polarized glass mounting base which you intend to adjust.
3. Turn the polarized glass mounting base as shown in Fig. 14, adjust the lowest level in black.
4. Tighten the screw "A" to fix the polarized glass mounting base.

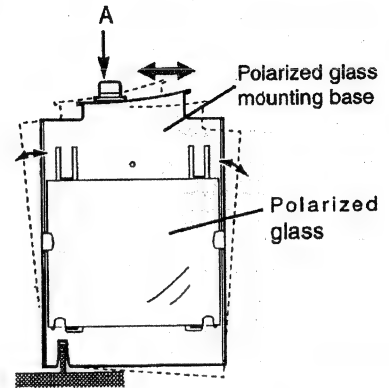


Fig. 14

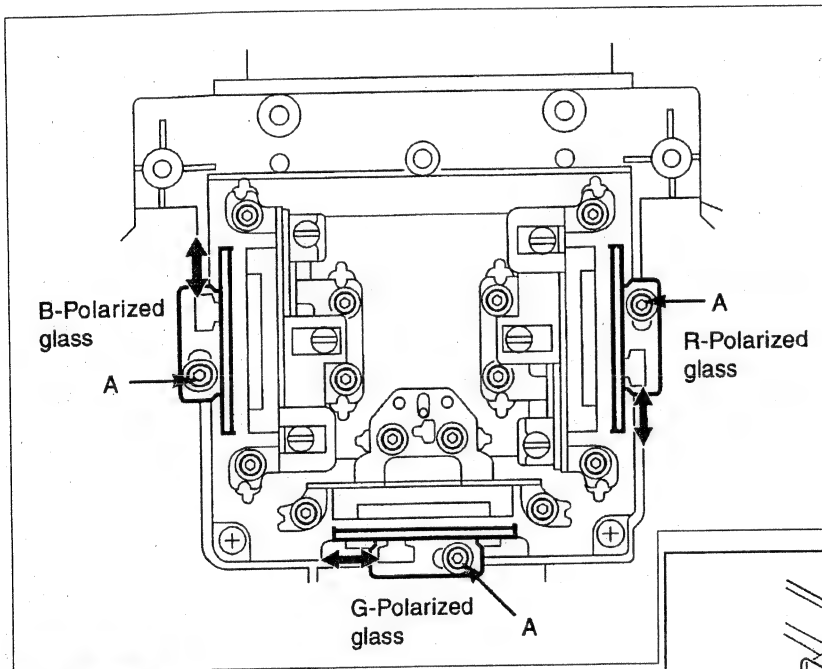
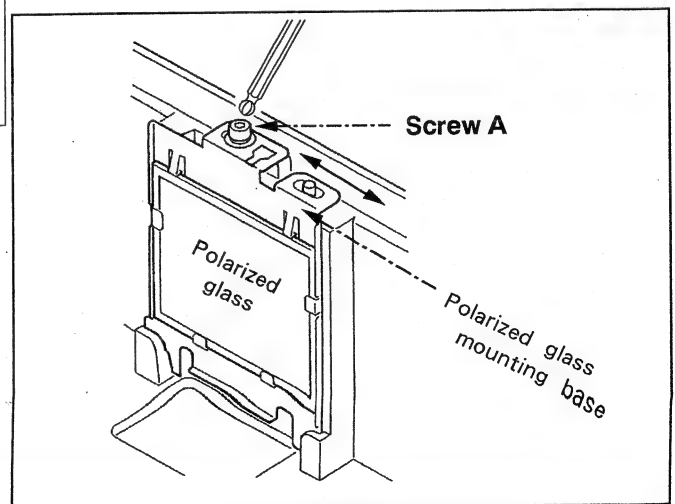


Fig. 13

Fig. 12





# CPU INPUT/OUTPUT PORT FUNCTIONS

PIN NO.	FUNCTION NAME	FUNCTION	POLARITY	IN/OUT
1	---	---	---	---
2	PS2 EN	PROGRESSIVE SCAN ENABLE	ACTIVE H	OUT
3	SCL 2	IIC BUS 2 CLOCK	---	IN/OUT
4	SDA 2	IIC BUS 2 DATA	---	IN/OUT
5	---	---	---	---
6	VSS	VSS GND	---	---
7	---	---	---	---
8	ADDRESS 1	ADDRESS BUS 1	---	OUT
9	ADDRESS 2	ADDRESS BUS 2	---	OUT
10	ADDRESS 3	ADDRESS BUS 3	---	OUT
11	ADDRESS 4	ADDRESS BUS 4	---	OUT
12	VCC	VCC 5V	---	---
13	ADDRESS 5	ADDRESS BUS 5	---	OUT
14	VSS	VSS GND	---	---
15	ADDRESS 6	ADDRESS BUS 6	---	OUT
16	ADDRESS 7	ADDRESS BUS 7	---	OUT
17	ADDRESS 8	ADDRESS BUS 8	---	OUT
18	ADDRESS 9	ADDRESS BUS 9	---	OUT
19	ADDRESS 10	ADDRESS BUS 10	---	OUT
20	ADDRESS 11	ADDRESS BUS 11	---	OUT
21	ADDRESS 12	ADDRESS BUS 12	---	OUT
22	ADDRESS 13	ADDRESS BUS 13	---	OUT
23	ADDRESS 14	ADDRESS BUS 14	---	OUT
24	ADDRESS 15	ADDRESS BUS 15	---	OUT
25	ADDRESS 16	ADDRESS BUS 16	---	OUT
26	VCC	VCC 5V	---	---
27	ADDRESS 17	ADDRESS BUS 17	---	OUT
28	VSS	GND	---	---
29	SCL 1	IIC BUS 1 CLOCK	---	IN/OUT
30	SDA 1	IIC BUS 1 DATA	---	IN/OUT
31	RAS	DRAM-RAS SIGNAL OUTPUT	ACTIVE L	OUT
32	CASL	DRAM-CAS SIGNAL OUTPUT	ACTIVE L	OUT
33	SYS SW	IC ON/OFF SWITCH	L=ON, H=OFF	OUT
34	AFT-V	V-SYNC INPUT (LCD PANEL DRIVE)	ACTIVE L	IN
35	VSS	VSS GND	---	---
36	BF-V	V-SYNC INPUT	ACTIVE L	IN
37	ADDRESS 18	ADDRESS BUS 18	---	OUT
38	ADDRESS 19	ADDRESS BUS 19	---	OUT
39	ADDRESS 20	ADDRESS BUS 20	---	OUT
40	VCC	VCC 5V	---	---
41	ADDRESS 21	ADDRESS 21	---	OUT
42	VSS	VSS GND	---	---
43	READ	READ SIGNAL (OUTPUT)	ACTIVE L	OUT
44	WDT	---	---	OUT
45	DATA 31	DATA BUS 31	---	IN/OUT
46	DATA 30	DATA BUS 30	---	IN/OUT
47	WRH	WRIGHT SIGNAL H-8BIT	ACTIVE L	OUT
48	WRL	WRIGHT SIGNAL L-8BIT	ACTIVE L	OUT
49	CS1	BGA CHIP SELECT	ACTIVE L	OUT
50	CS0	FLASH MEMORY CHIP SELECT	ACTIVE L	OUT

# CPU INPUT/OUTPUT PORT FUNCTIONS

PIN NO.	FUNCTION NAME	FUNCTION	POLARITY	IN/OUT
51	CAL-END	FPGA END SIGNAL IN	H=END	IN
52	FPGA CONT	FPGA CONTROL	H=ON	OUT
53	CS3	SRAM CHIP SELECT	Active L	OUT
54	CS2	USB/LCD DRIVER CHIP SELECT	Active L	OUT
55	VSS	VSS GND		
56	DATA 29	DATA BUS 29		IN/OUT
57	DATA 28	DATA BUS 28		IN/OUT
58	DATA 27	DATA BUS 27		IN/OUT
59	DATA 26	DATA BUS 26		IN/OUT
60	DATA 25	DATA BUS 25		IN/OUT
61	VSS	VSS GND		
62	DATA 24	DATA BUS 24		IN/OUT
63	VCC	VCC 5V		
64	DATA 23	DATA BUS 23		IN/OUT
65	DATA 22	DATA BUS 22		IN/OUT
66	DATA 21	DATA BUS 21		IN/OUT
67	DATA 20	DATA BUS 20		IN/OUT
68	DATA 19	DATA BUS 19		IN/OUT
69	DATA 18	DATA BUS 18		IN/OUT
70	DATA 17	DATA BUS 17		IN/OUT
71	VSS	VSS GND		
72	DATA 16	DATA BUS 16		IN/OUT
73	DATA 15	DATA BUS 15		IN/OUT
74	DATA 14	DATA BUS 14		IN/OUT
75	DATA 13	DATA BUS 13		IN/OUT
76	DATA 12	DATA BUS 12		IN/OUT
77	VCC	VCC 5V		
78	DATA 11	DATA BUS 11		IN/OUT
79	VSS	VSS GND		
80	DATA 10	DATA BUS 10		IN/OUT
81	DATA 9	DATA BUS 9		IN/OUT
82	DATA 8	DATA BUS 8		IN/OUT
83	DATA 7	DATA BUS 7		IN/OUT
84	DATA 6	DATA BUS 6		IN/OUT
85	VCC	VCC 5V		
86	DATA 5	DATA BUS 5		IN/OUT
87	VSS	VSS GND		
88	DATA 4	DATA BUS 4		IN/OUT
89	DATA 3	DATA BUS 3		IN/OUT
90	DATA 2	DATA BUS 2		IN/OUT
91	DATA 1	DATA BUS 1		IN/OUT
92	DATA 0	DATA BUS 0		IN/OUT
93	VSS	VSS GND		
94	XTAL	XTAL OSC SIGNAL INPUT		IN
95	MODE 3	MODE 3		IN
96	EXTAL	EXTAL OSC SIGNAL OUTPUT		OUT
97	MODE 2	MODE 2		IN
98	NONMASK	NONMASK		IN
99	FWP	FWP FLASH MEMORY WRIGHT MODE		IN
100	FLASH MODE	FWP CONTROL		OUT



## CPU INPUT/OUTPUT PORT FUNCTIONS

[illegible]

# CPU INPUT/OUTPUT PORT FUNCTIONS

## I/O EXPANDER IC809

PIN NO.	FUNCTION NAME	FUNCTION	POLARITY	IN/OUT
1	SDOUT	SERIAL DATA OUTPUT		OUT
2	SDIN	SERIAL DATA INPUT		IN
3	SDCLK	SERIAL DATA CLOCK		OUT
4	CHIP SEL	CHIP SELECT		IN
5	VCC	VCC 5V		
6	RESET	RESET SIGNAL INPUT		IN
7	VSS	VSS GND		
8				
9				
10	FOCUS -	FOCUS PHASE SW		OUT
11	FOCUS +	FOCUS MOTOR ON/OFF SW	H=MOTOR ON	OUT
12	ZOOM -	ZOOM PHASE SW (WIDE/TELE SW)		OUT
13	ZOOM +	ZOOM MOTOR ON/OFF SW	H=MOTOR ON	OUT
14	CPU MOUSE 1	CPU MOUSE CONTROL SIGNAL 1	L=CPU, H=MOUSE	OUT
15	CPU MOUSE 2	CPU MOUSE CONTROL SIGNAL 2	L=CPU, H=MOUSE	OUT
16	VSS	VSS GND		
17				
18				
19	CG/AV	CG/AV SELECT SIGNAL OUT	L=CG, H=AV	OUT
20	CG1/CG2	CG1/CG2 SELECT SIGNAL OUT	L=CG1, H=CG2	OUT
21				
22	DSCAN OUT	DSCAN OUT		
23	CG/HD SW	CG/HD SWITCH		
24				
25	NOR/PRSC	PROGRESSIVE SCAN SELECT	L=PROGRESSIVE SCAN	OUT
26	POWER	POWER LED ON/OFF		OUT
27	FAN DRIVE	POWER ON/OFF SIGNAL	H=ON	OUT
28	AUDIO MUTE	AUDIO MUTE	H=MUTE ON	OUT
29	FILTER SW	FILTER SW	L=FILTER OFF	OUT
30				
31	PS RST	PROGRESSIVE SCAN RESET		
32				

## I/O EXPANDER IC810

PIN NO.	FUNCTION NAME	FUNCTION	POLARITY	IN/OUT
1	SDOUT	SERIAL DATA OUTPUT		OUT
2	SDIN	SERIAL DATA INPUT		IN
3	SDCLK	SERIAL DATA CLOCK		OUT
4	CHIP SEL	CHIP SELECT		IN
5	VCC	VCC 5V		
6	RESET	RESET SIGNAL INPUT		IN
7	VSS	VSS GND		
8	S-SW	S-VIDEO DETECT	L=S-VIDEO IN	IN
9	PAL M/N	PAL M/N		
10	WARNING	WARNING TEMP. LED	L=ON, H=OFF	OUT
11	LAMP REP	LAMP REPLACE LED	L=ON, H=OFF	OUT
12	READY	READY LED	L=ON, H=OFF	OUT
13	NTSC/PAL SW	NTSC/OTHER SW		
14	Y/Cb/Cr IN	COMPONENT DET. IN		
15	COMPONENT SW	COMPONENT SW	L=COM, H=OTHER	
16	VSS	VSS GND		
17	INT SW	INT SW		
18	SG RAM RESET	SG RAM RESET	L=RESET	OUT
19	OSD RESET	OSD RESET	L=RESET	OUT
20	RSTP	DRAM READ CONTROL		OUT
21	SG BUS CONT	SG BUS CONT BGA-SGRAM		OUT
22	V-SYNC DET.	V-SYNC DETECT (C-SYNC)	L=NO SYNC SIGNAL	IN
23	S-SW OUT	S-SWITCH		
24	TEMP DET.	WARNING TEMP. DETECT SIGNAL	H=NORMAL	IN
25				
26	FREEZE	EXTERNAL FREEZE		OUT
27	SECAM ID	SECAM ID DET.		
28				
29	AUDI SW 1	AUDI SW 1		
30	AUDI SW 2	AUDI SW 2		
31	Y DET	Y DET		
32	INT/NOINT	INT/NOINT		

## MAINTENANCE

### CLEANING METHODS

After long periods of use, dust and other particles will accumulate on the LCD panel, prism, mirror, polarized glass, lens, etc., causing the picture to darken or color to blur. If this occurs, clean the inside of optical unit.

Remove dust and other particles using air spray. If dirt cannot be removed by air spray, disassemble and clean the optical unit.

#### Cleaning with air spray

Clean up the LCD panel and polarizing plate by using the air spray from the cabinet top opening.

##### **Caution:**

Use a commercial (inert gas) air spray designed for cleaning camera and computer equipment. Use a resin-based nozzle only. Be very careful not to damage optical parts with the nozzle tip. Never use any kind of cleanser on the unit. Also, never use abrasive materials on the unit as this may cause irreparable damage.

#### Disassembly Cleaning

Disassembly cleaning method should only be performed when the unit is considerably dirty and cannot be sufficiently cleaned by air spraying alone.

**Be sure to readjust the optical system after performing disassembly cleaning.**

1. Remove the cabinet top and main unit.
2. Remove integrator lens unit and relay lens unit, and then the optical base top following step 2 of "Optical Unit Disassemblies". If the LCD panel needs cleaning, remove the LCD panel unit following to "LCD panel replacement".
3. Clean the optical parts with a soft cloth. Clean extremely dirty areas using a cloth moistened with alcohol.

##### **Caution:**

The surface of the optical components consists of multiple dielectric layers with varying degrees of refraction. Never use organic solvents (thinner, etc.) or any kind of cleanser on these components.

Since the LCD panel is equipped with an electronic circuit, never use any liquids (water, etc.) to clean the unit. Use of liquid may cause the unit to malfunction.

## MAINTENANCE

### AIR FILTER CARE AND CLEANING

The removable air filter prevents dust from accumulating on the surface of the projection lens and projection mirror. Should the air filter become clogged with dust particles, it will reduce the cooling fan's effectiveness and may result in internal heat build up and reduce the life of the projector.

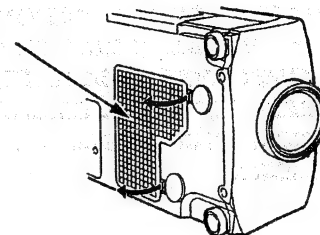
To clean the air filter, follow the cleaning procedures below:

1. Turn the POWER ON/OFF button OFF.
2. Remove the air filter cover.
3. Remove the air filter from the filter cover.
4. Clean the air filter with a vacuum cleaner.
5. Replace the air filter. Make sure that air filter cover is fully inserted.

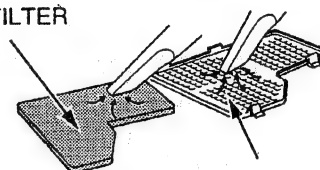


Do not clean with water. Doing so may damage the air filter.  
Do not operate the projector with air filter removed.

AIR FILTER COVER



AIR FILTER



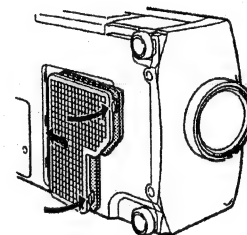
AIR FILTER COVER

### RECOMMENDATION

**TO ENJOY PICTURE IMAGE, USE THE PROJECTOR IN THE CLEAN ENVIRONMENT. USAGE IN THE CLEAN ENVIRONMENT IS RECOMMENDED.**

When used under the dusty or smoky conditions, dust may accumulate on the liquid crystal panel and lens inside it, and may resultantly be projected on the screen together with the picture.

When the above symptoms are noticed contact the place where your authorized dealer or service station for the cleaning.



### CLEANING THE PROJECTION LENS

Follow these steps to clean the projection lens:

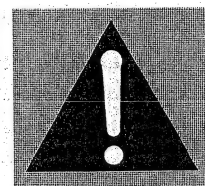
1. Apply a non-abrasive camera lens cleaner to a soft, dry cleaning cloth.  
Avoid using an excessive amount of cleaner.  
Abrasive cleaners, solvents or other harsh chemicals might scratch the lens.
2. Lightly wipe the cleaning cloth over the lens.
3. If you don't intend to use the projector immediately, replace the lens cover.



## [NOTES ON SCHEMATIC DIAGRAM]

### 1. PRODUCT SAFETY NOTICE

THE COMPONENTS DESIGNATED BY A MARK (  $\triangle$  ) IN THIS SCHEMATIC DIAGRAM DESIGNATE COMPONENTS WHOSE VALUES ARE OF SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. SHOULD ANY COMPONENT DESIGNATED BY A MARK NEED TO BE REPLACED, USE ONLY THE PART DESIGNATED IN THE PARTS LIST. DO NOT DEVIATE FROM THE RESISTANCE, WATTAGE AND VOLTAGE RATINGS SHOWN.



### 2. NOTES ON SCHEMATIC DIAGRAM

Specification of capacitor and resistors will be shown with coded symbols, reading code symbols following the chart and notes. Some capacitor and resistors will be shown directly with values and no other information. Detailed information on each capacitor and resistor will be shown in the list.

NOTE: DO NOT REPLACE OR ORDER RESISTOR AND CAPACITOR PARTS FOLLOWING THE SPECIFICATIONS SHOWN IN THE SCHEMATIC DIAGRAMS.

ALWAYS CHECK FOR THE CORRECT SPECIFICATIONS IN THE PARTS LIST. ESPECIALLY FOR CRITICAL COMPONENT MARKED  $\triangle$ . SPECIAL ATTENTION MUST BE GIVEN TO CRITICAL COMPONENTS.

### 3. READING IN SCHEMATIC DIAGRAM

Read resistor codes as follows:

1. All resistance values are indicated in ohms: K=1,000. M=1,000,000.
2. Resistor which is indicated with resistance value only are 1/6W carbon resistor.  
Resistor which is indicated with material tolerance and value are 1/4W rated wattage.

Read capacitor codes as follows:

1. For capacitors identified with  $\text{---}\text{---}\text{---}$ , values less than 1 are expressed in  $\mu\text{F}$ , values more than 1 are in pF.
2. For capacitors (electrolytic) identified with  $\text{---}\text{---}\text{---}$ , values are expressed in  $\mu\text{F}$ .

Voltage and waveforms were taken using a video color bar signal (1V p-p at 75 ohms terminated) and controls to normal.

Voltages were taken with a high-impedance voltmeter.

### 4. SERVICE NOTES;

1. When replacing high wattage resistors on circuit board, keep the resistor body 10 mm (3/8") from circuit board.
2. Keep wires away from high voltage and high temperature components.

# Capacitor and Resistors Code Chart

Read description in the Capacitor and Resistor as follows:

(Revised May / 1998)

## CAPACITOR

16 K K 0.47 BA

Characteristic  
Rated value

### Tolerance Symbols

Static capacitance of 10PF or less

A: Non-designated	B: $\pm 0.1PF$	C: $\pm 0.25PF$	D: $\pm 0.5PF$	F: $\pm 1PF$	G: $\pm 2PF$
H: $+0.1-0PF$	L: $+0-0.1PF$	R: $+0.25-0PF$	S: $+0-0.25PF$	E: $+0-1PF$	
J: $\pm 5\%$	K: $\pm 10\%$	M: $\pm 20\%$			

Note: J, K, and M are used only for tubular Ceramic Capacitors

Static capacitance of more than 10PF

A: Non-designated	B: $\pm 0.1\%$	C: $\pm 0.25\%$	D: $\pm 0.5\%$	F: $\pm 1\%$	G: $\pm 2\%$
E: $\pm 2.5\%$	H: $\pm 3\%$	J: $\pm 5\%$	K: $\pm 10\%$	L: $\pm 15\%$	M: $\pm 20\%$
N: $\pm 30\%$	P: $+100-0\%$	Q: $+30-10\%$	R: $+20-0\%$	T: $+50-10\%$	U: $+75-10\%$
V: $+20-10\%$	W: $+100-10\%$	X: $+40-20\%$	Y: $+150-10\%$	Z: $+80-20\%$	

### Material :

C	CERAMIC	Temperature compensating ceramic
K	CERAMIC	High dielectric rate ceramic
B	CERAMIC	Semiconductor ceramic
Z	MT-PAPER	Metallized paper
F	POLYESTER	Polyester
G	MT-POLYEST	Metallized polyester
N	POLYPRO	Polypropylene
M	MT-POLYPRO	Metallized polypropylene
Y	COMPO FILM	Composite film
H	MT-COMPO	Metallized composite film
S	STYRENE	Styrol
T	TA-SOLID	Tantalum oxide solid electrolytic
A	AL-SOLID	Aluminium solid electrolytic
E	ELECT	Aluminum foil electrolytic
P	NP-ELECT	Non-polarized electrolytic
U	OS-SOLID	Aluminium solid capacitors with organic semiconductive electrolyte
V	POS-SOLID	Polymerized organic semiconductor
D	DL-ELECT	Electric double layer electrolytic
J	AL-SOLID	Aluminium manganese wind solid
L	PPS-FILM	Polyphenylene sulfide film
Q	MT-PPS-FILM	Metallized Polyphenylene sulfide film
R	MT-PEN-FILM	Metallized polyethylenenaphthalate film
X	CAPACITOR	Other

Rated Voltage

## FIXED RESISTER

1/10 G J 100K

Rated value, ohms : K: X1,000 ohms. M: X1,000,000 ohms

### Tolerance Symbols:

A: $\pm 0.05\%$	B: $\pm 0.1\%$	C: $\pm 0.25\%$	D: $\pm 0.5\%$	F: $\pm 1\%$	G: $\pm 2\%$
J: $\pm 5\%$	K: $\pm 10\%$	M: $\pm 20\%$	P: $\pm 5-15\%$	Z: Use when 0 ohm	

### Material :

D	CARBON	Carbon film fixed
N	MT-FILM	Metal film fixed
S	OXIDE-MT	Oxide metal film fixed
C	SOLID	Solid
G	MT-GLAZE	Metal glaze type fixed
W	WIRE WOUND	power type covered wiring fixed
H	CERAMIC RES	Ceramic fixed
F	FUSIBLE RES	Fusible
X	RESISTER	Used for "others"

Rated Wattage



# PARTS LIST

## CAUTION TO REPLACE PARTS

### CAUTION TO REPLACE ASS'Y POWER

- ★ After replacing the parts in the P.F.C. circuit or Ass'y Power, readjust the P.F.C. output voltage.
- ★ After replacing the parts in the +15V DC circuit or Ass'y Power, readjust the +15V DC voltage.
- ★ After replacing the parts in the +15.5V DC circuit or Ass'y Power, readjust the +15.5V DC voltage. (Refer to electrical adjustments)

### CAUTION TO REPLACE ASS'Y LAMP BALLAST

In case this Assy Lamp Ballast is fault, replace the Assy Lamp Ballast completely, do not replace the individual component.

### CAUTION TO REPLACE LCD PANEL

After replacing the LCD panel, readjust the

- Focus adjustment,
- Convergence adjustment,
- Common center adjustment,
- White balance adjustment,
- and ■ Uneven color correction.

(Refer to optical and electrical adjustments.)

### ■ CAUTION TO REPLACE ASS'Y MAIN AND EEP-ROM(IC806/ 481).

- EEP-ROM(IC806/ 481) memorizes the data adjusted at Service Mode, and should not be replaced except for the case of defective product.
- The Uneven Color Correction data is memorized in IC481.
- Lamp Illumination Time, Data No. 37 of Service Mode, is memorized in IC806 to indicate the span of Lamp Life. When IC806 is replaced, Lamp Illumination Time is reset at the same time. Lamp Illumination Time can not be set to the previous value.

■ CAUTION: Do not replace EEP-ROM(IC806/ 481) unreasonably!!

### ■ CAUTION TO REPLACE IC481

(In the case IC481 is damaged.)

When IC is replaced with new one, CPU write in initial data in IC481. Initial data is not the same data as factory initial data. After replacing the IC481, readjust the "Uneven Color Correction" of Electrical Adjustments".

### ■ CAUTION TO REPLACE IC806

(In the case IC806 is damaged.)

When IC is replaced with new one, CPU write in initial data in IC806. Initial data is not the same data as factory initial data. After replacing the IC806, readjust the "Electrical Adjustments".

※ LAMP ILLUMINATION TIME is reset to the initial value.

### ■ CAUTION TO REPLACE ASS'Y MAIN.

(In the case Eep-Roms are not damaged.)

When Assy Main is replaced, Eep-Roms on new Assy Main should be replaced with the those on previous Assy Main.

※ LAMP ILLUMINATION TIME keep the value as before.

## Parts list

### 【 Electrical Parts List 】

Product safety should be considered when a component replacement is made in any area of a Projector. Components indicated by a  $\Delta$  mark in this parts list and the schematic diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

Note: Part order must contain Service Ref. No., Part No., and descriptions.

Read description in the Capacitor and Resistor as follows:

( Revised May / 1998 )

#### CAPACITOR

CERAMIC 100P K 50V

Rated Voltage

##### Tolerance Symbols

Static capacitance of 10PF or less

A: Non-designated	B: $\pm 0.1PF$	C: $\pm 0.25PF$	D: $\pm 0.5PF$	F: $\pm 1PF$	G: $\pm 2PF$
H: $\pm 0.1-0PF$	L: $\pm 0-0.1PF$	R: $\pm 0.25-0PF$	S: $\pm 0-0.25PF$	E: $\pm 0-1PF$	
J: $\pm 5\%$	K: $\pm 10\%$	M: $\pm 20\%$			

Note: J, K, and M are used only for tubular Ceramic Capacitors

Static capacitance of more than 10PF

A: Non-designated	B: $\pm 0.1\%$	C: $\pm 0.25\%$	D: $\pm 0.5\%$	F: $\pm 1\%$	G: $\pm 2\%$
E: $\pm 2.5\%$	H: $\pm 3\%$	J: $\pm 5\%$	K: $\pm 10\%$	L: $\pm 15\%$	M: $\pm 20\%$
N: $\pm 30\%$	P: $\pm 100-0\%$	Q: $\pm 30-10\%$	R: $\pm 20-0\%$	T: $\pm 50-10\%$	U: $\pm 75-10\%$
V: $\pm 20-10\%$	W: $\pm 100-10\%$	X: $\pm 40-20\%$	Y: $\pm 150-10\%$	Z: $\pm 80-20\%$	

Rated value: P=Pico farad, U=Micro farad

Material :			
CERAMIC	Temperature compensating ceramic	High dielectric rate ceramic	Semiconductor ceramic
MT- PAPER	Metallized paper		
POLYESTER	Polyester		
MT- POLYEST	Metallized polyester		
POLYPRO	Polypropylene		
MT- POLYPRO	Metallized polypropylene		
COMPO FILM	Composite film		
MT- COMPO	Metallized composite film		
STYRENE	Styrol		
TA- SOLID	Tantalum oxide solid electrolytic		
AL- SOLID	Aluminium solid electrolytic		
ELECT	Aluminium foil electrolytic		
NP- ELECT	Non- polarized electrolytic		
OS- SOLID	Aluminium solid capacitors with organic semiconductive electrolyte		
POS- SOLID	Polymerized organic semiconductor		
DL- ELECT	Electric double layer electrolytic		
AL- SOLID	Aluminium manganese wind solid		
PPS- FILM	Polyphenylene sulfide film		
MT- PPS- FILM	Metallized Polyphenylene sulfide film		
MT- PEN- FILM	Metallized polyethylenenaphthalate film		
CAPACITOR	Other		

#### FIXED RESISTER

CARBON 4.7K J A 1/4W

Rated Wattage

NOTE : What are called "cement resistors" are noncombustible, so are indicated as "General" (symbol A), not "Flame retardant (including noncombustible)" (symbol B).

##### Performance Symbols:

A: General B: Flame retardance (including noncombustible)

Z: Low noise ( Less than 100Kohms :  $0.3 \mu V/V$ , 100Kohms to 1Mohm :  $0.5 \mu V/V$ , More than 1Mohm :  $1.0 \mu V/V$  )

C-Y : Temperature characteristics

T: $\pm 10ppm/^{\circ}C$	U: $\pm 25ppm/^{\circ}C$	C: $\pm 50ppm/^{\circ}C$	D: $\pm 100ppm/^{\circ}C$	E: $200ppm/^{\circ}C$	F: $\pm 250ppm/^{\circ}C$
G: $\pm 350ppm/^{\circ}C$	H: $\pm 1000ppm/^{\circ}C \pm 10\%$	W: $\pm 1200ppm/^{\circ}C \pm 10\%$			Y: $\pm 1400ppm/^{\circ}C \pm 10\%$
J: $\pm 2000ppm/^{\circ}C \pm 10\%$		K: $\pm 2400ppm/^{\circ}C \pm 10\%$		L: $\pm 2700ppm/^{\circ}C \pm 10\%$	
M: $\pm 3000ppm/^{\circ}C \pm 10\%$		N: $\pm 3300ppm/^{\circ}C \pm 10\%$		P: $\pm 3600ppm/^{\circ}C \pm 10\%$	
Q: $\pm 3900ppm/^{\circ}C \pm 10\%$		R: $\pm 4200ppm/^{\circ}C \pm 10\%$		S: $\pm 4300ppm/^{\circ}C \pm 10\%$	
V: $\pm 4500ppm/^{\circ}C \pm 10\%$		X: $\pm 800ppm/^{\circ}C \pm 150ppm/^{\circ}C$			

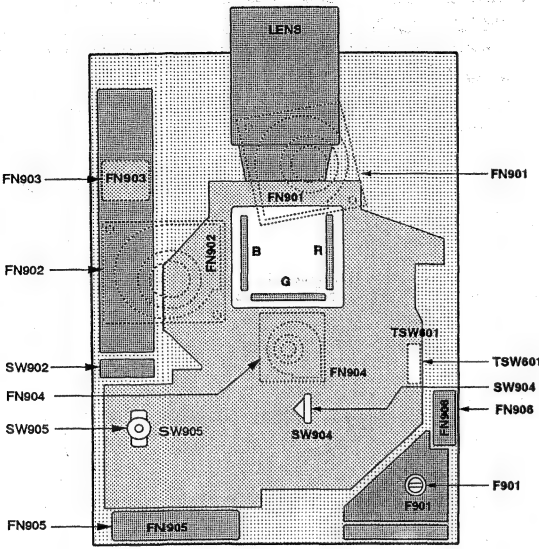
##### Tolerance Symbols:

A: $\pm 0.05\%$	B: $\pm 0.1\%$	C: $\pm 0.25\%$	D: $\pm 0.5\%$	F: $\pm 1\%$	G: $\pm 2\%$
J: $\pm 5\%$	K: $\pm 10\%$	M: $\pm 20\%$	P: $\pm 5-15\%$	Z: Use when 0 ohm	

Rated value, ohms : K: X1,000 ohms, M: X1,000,000 ohms

Material :	
CARBON	Carbon film fixed
MT- FILM	Metal film fixed
OXIDE- MT	Oxide metal film fixed
SOLID	Solid
MT- GLAZE	Metal glaze type fixed
WIRE WOUND	power type covered wiring fixed
CERAMIC RES	Ceramic fixed
FUSIBLE RES	Fusible
RESISTER	Used for "others"

# 【 Electrical Parts List 】

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
■ OUT OF ASS'Y PWB					
					
COIL			Q5021	405 014 4509	TR 2SC2412K T146 R
△LF901	645 038 8088	UNIT, NOISE FILTER	Q5026	405 014 4509	TR 2SC2412K T146 R
L901	645 003 3834	CORE, FERRITE	Q5111	405 002 0308	TR 2SA1037K T146 R
MISCELLANEOUS			Q5231	405 014 4509	TR 2SC2412K T146 R
△FN901	645 033 1893	MOTOR, FAN DC 2.4W	Q5232	405 014 4509	TR 2SC2412K T146 R
△FN902	645 033 1893	MOTOR, FAN DC 2.4W	Q5233	405 014 4509	TR 2SC2412K T146 R
△FN903	645 034 7948	MOTOR, FAN DC 1.7W	Q5234	405 014 4509	TR 2SC2412K T146 R
△FN904	645 033 1879	MOTOR, FAN DC 2.2W	Q5241	405 014 4509	TR 2SC2412K T146 R
△FN905	645 034 8075	MOTOR, FAN DC 2.9W	Q5261	405 014 4509	TR 2SC2412K T146 R
△FN906	645 033 1879	MOTOR, FAN DC 2.2W	Q7261	405 014 4509	TR 2SC2412K T146 R
△F901	423 021 7801	FUSE 250V 6.3A	Q7262	405 014 4509	TR 2SC2412K T146 R
△F901A	645 021 0983	HOLDER, FUSE	INTEGRATED CIRCUIT		
	645 023 3777	HOLDER, FUSE	IC3801	410 275 5707	IC TWM7000-162020
R901	401 008 8607	CARBON 220K JA 1/2W		410 275 5806	IC TWM7000-162020
SP901	645 020 3985	SPEAKER, 8	IC3811	410 275 5707	IC TWM7000-162020
SP902	645 020 3985	SPEAKER, 8		410 275 5806	IC TWM7000-162020
△SW901	645 033 1589	SWITCH, POWER 2P-2TX2	IC3821	410 296 5700	IC TWM7000-151020
△SW902	645 024 8986	SWITCH, PUSH 2P-2TX2	IC3841	410 296 5700	IC TWM7000-151020
△SW904	645 027 4756	SWITCH, REED	IC3861	410 296 2402	IC TMP47C101M-JV45
△SW905	645 026 5457	SWITCH, THERMAL	IC3862	409 344 1900	IC MN1382-Q-TX
WK6SA	610 012 5926	TERMINAL	IC3871	409 380 6303	IC HIN232CB
WK6SB	610 014 2886	TERMINAL	IC5001	409 051 2702	IC TC4052BF(EL)
WK8GA	645 039 9374	PLUG, 4P	IC5201	409 462 6009	IC AD8185ARU
W16FF&8F	645 016 8321	CORD, ID CONNECTOR	IC5261	409 153 5601	IC MC74F244M
W18D&18B	645 033 5556	CORD, ID CONNECTOR	IC5271	410 343 7008	IC SN74AHCT1G14DBVR
W18E&8R	645 031 3301	CORD, ID CONNECTOR	IC5281	410 343 7008	IC SN74AHCT1G14DBVR
W20H&8S	610 285 1557	CORD SHIELD 6P 1.5MM	IC6201	409 461 7403	IC LT1399CS
W20J&8T	645 040 0292	CORD, ID CONNECTOR	IC7201	409 417 1400	IC CXA2016S
W20K&8Z	645 040 0285	CORD, ID CONNECTOR	IC7221	410 343 7008	IC SN74AHCT1G14DBVR
W20L&8L	610 285 1564	CORD SHIELD 12P 1.5MM	IC7222	410 343 7008	IC SN74AHCT1G14DBVR
W6E&8C	645 029 6444	CORD, ID CONNECTOR	IC7251	409 202 1400	IC MC14538BF-L1
W6P&8W	645 042 4120	CORD, ID CONNECTOR	CAPACITOR		
W8G&8GA	610 283 2198	CONVERT CORD 4P	C2036	403 069 9500	CERAMIC 0.01U Z 50V
□△LP900	610 282 2755	COMPL, OPTICAL LAMP-MF6A	C2057	403 069 9500	CERAMIC 0.01U Z 50V
■△A901 645 038 3472 UNIT, BALLAST			C2066	403 175 4505	ELECT 47U M 6.3V
■ 610 281 9984 ASSY, PWB, A/V MF6A			C2076	403 175 4505	ELECT 47U M 6.3V
TRANSISTOR			C2086	403 175 4505	ELECT 47U M 6.3V
Q2051	405 014 4509	TR 2SC2412K T146 R	C3101	403 314 5905	CERAMIC 0.47U K 16V
Q2054	405 014 4509	TR 2SC2412K T146 R	C3102	403 314 5905	CERAMIC 0.47U K 16V
Q2057	405 014 4509	TR 2SC2412K T146 R	C3111	403 314 5905	CERAMIC 0.47U K 16V
Q2058	405 002 0308	TR 2SA1037K T146 R	C3116	403 175 4505	ELECT 47U M 6.3V
Q2066	405 002 0308	TR 2SA1037K T146 R	C3801	403 175 4505	ELECT 47U M 6.3V
Q2076	405 014 4509	TR 2SC2412K T146 R	C3802	403 316 5408	CERAMIC 1U K 10V
Q2086	405 014 4509	TR 2SC2412K T146 R	C3812	403 316 5408	CERAMIC 1U K 10V
Q3111	405 014 4509	TR 2SC2412K T146 R	C3821	403 316 5408	CERAMIC 1U K 10V
Q3116	405 014 4509	TR 2SC2412K T146 R	C3822	403 316 5408	CERAMIC 1U K 10V
			C3823	403 316 5408	CERAMIC 1U K 10V
			C3841	403 316 5408	CERAMIC 1U K 10V
			C3842	403 316 5408	CERAMIC 1U K 10V
			C3843	403 316 5408	CERAMIC 1U K 10V
			C3861	403 316 5408	CERAMIC 1U K 10V
			C3867	403 316 5408	CERAMIC 1U K 10V
			C3868	403 162 6208	ELECT 1U M 50V
			C3869	403 162 6208	ELECT 1U M 50V
			C3871	403 316 5408	CERAMIC 1U K 10V
			C3881	403 162 6208	ELECT 1U M 50V
			C3882	403 162 6208	ELECT 1U M 50V
			C3883	403 162 6208	ELECT 1U M 50V
			C3884	403 162 6208	ELECT 1U M 50V
			C5001	403 162 4709	ELECT 10U M 16V
			C5002	403 314 5905	CERAMIC 0.47U K 16V
			C5003	403 205 7803	TA-SOLID 2.2U M 16V
			C5006	403 229 3508	ELECT 100U M 16V
			C5007	403 229 3508	ELECT 100U M 16V
			C5011	403 205 7803	TA-SOLID 2.2U M 16V
			C5012	403 205 7803	TA-SOLID 2.2U M 16V
			C5013	403 205 7803	TA-SOLID 2.2U M 16V
			C5016	403 205 7803	TA-SOLID 2.2U M 16V
			C5017	403 205 7803	TA-SOLID 2.2U M 16V
			C5018	403 205 7803	TA-SOLID 2.2U M 16V
			C5021	403 162 4709	ELECT 10U M 16V
			C5026	403 162 4709	ELECT 10U M 16V
			C5111	403 280 0607	ELECT 220U M 6.3V
				403 322 7809	ELECT 220U M 6.3V
			C5116	403 162 4709	ELECT 10U M 16V
			C5117	403 314 5905	CERAMIC 0.47U K 16V

# **[ Electrical Parts List ]**

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C5201	403 280 0607	ELECT 220U M 6.3V	R1084	401 038 6604	MT-GLAZE 470K JA 1/10W
C5202	403 070 2606	CERAMIC 0.1U Z 50V	R1086	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
C5203	403 070 2606	CERAMIC 0.1U Z 50V	R1087	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
C5204	403 069 9500	CERAMIC 0.01U Z 50V	R1088	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
C5205	403 069 9500	CERAMIC 0.01U Z 50V	R1089	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
C5206	403 280 0607	ELECT 220U M 6.3V	R1096	403 314 5905	CERAMIC 0.47U K 16V
C5207	403 070 2606	CERAMIC 0.1U Z 50V	R1097	403 314 5905	CERAMIC 0.47U K 16V
C5208	403 070 2606	CERAMIC 0.1U Z 50V	R2011	401 260 4102	MT-GLAZE 75 JA 1/3W
C5209	403 069 9500	CERAMIC 0.01U Z 50V	R2016	401 037 5202	MT-GLAZE 100 JA 1/10W
C5210	403 069 9500	CERAMIC 0.01U Z 50V	R2017	401 037 5202	MT-GLAZE 100 JA 1/10W
C5215	403 069 9500	CERAMIC 0.01U Z 50V	R2018	401 038 6604	MT-GLAZE 470K JA 1/10W
C5231	403 022 8205	CERAMIC 33P J 50V	R2019	401 038 6604	MT-GLAZE 470K JA 1/10W
C5232	403 022 8205	CERAMIC 33P J 50V	R2031	401 260 4102	MT-GLAZE 75 JA 1/3W
C5233	403 022 8205	CERAMIC 33P J 50V	R2032	401 260 4102	MT-GLAZE 75 JA 1/3W
C5234	403 069 9500	CERAMIC 0.01U Z 50V	R2036	401 037 5202	MT-GLAZE 100 JA 1/10W
C5241	403 069 9500	CERAMIC 0.01U Z 50V	R2051	401 037 5202	MT-GLAZE 100 JA 1/10W
C5261	403 316 5408	CERAMIC 1U K 10V	R2052	401 037 5608	MT-GLAZE 10K JA 1/10W
C5266	403 069 9500	CERAMIC 0.01U Z 50V	R2053	401 037 5400	MT-GLAZE 1K JA 1/10W
C5267	403 069 9500	CERAMIC 0.01U Z 50V	R2054	401 037 5202	MT-GLAZE 100 JA 1/10W
C5271	403 070 2606	CERAMIC 0.1U Z 50V	R2055	401 037 5608	MT-GLAZE 10K JA 1/10W
C5272	403 071 6504	CERAMIC 220P K 50V	R2056	401 037 5400	MT-GLAZE 1K JA 1/10W
C5281	403 070 2606	CERAMIC 0.1U Z 50V	R2057	401 038 7809	MT-GLAZE 56K JA 1/10W
C5282	403 071 6504	CERAMIC 220P K 50V	R2058	401 037 5608	MT-GLAZE 10K JA 1/10W
C5291	403 280 0607	ELECT 220U M 6.3V	R2059	401 037 5400	MT-GLAZE 1K JA 1/10W
C5292	403 280 0607	ELECT 220U M 6.3V	R2061	401 260 4102	MT-GLAZE 75 JA 1/3W
C5293	403 280 0607	ELECT 220U M 6.3V	R2062	401 037 5202	MT-GLAZE 100 JA 1/10W
C5294	403 192 5905	CERAMIC 0.1U K 25V	R2066	401 038 3702	MT-GLAZE 33K JA 1/10W
C5296	403 280 0607	ELECT 220U M 6.3V	R2067	401 037 5608	MT-GLAZE 10K JA 1/10W
C5297	403 280 0607	ELECT 220U M 6.3V	R2068	401 037 9101	MT-GLAZE 180 JA 1/10W
C6201	403 162 4006	ELECT 22U M 6.3V	R2069	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
C6202	403 316 5408	CERAMIC 1U K 10V	R2071	401 260 4102	MT-GLAZE 75 JA 1/3W
C6206	403 162 4006	ELECT 22U M 6.3V	R2072	401 038 0602	MT-GLAZE 220 JA 1/10W
C6207	403 316 5408	CERAMIC 1U K 10V	R2076	401 038 0800	MT-GLAZE 22K JA 1/10W
C6231	403 021 0200	CERAMIC 3P C 50V	R2077	401 037 5608	MT-GLAZE 10K JA 1/10W
C6232	403 021 0200	CERAMIC 3P C 50V	R2078	401 037 5400	MT-GLAZE 1K JA 1/10W
C6233	403 021 0200	CERAMIC 3P C 50V	R2079	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
C7201	403 175 4505	ELECT 47U M 6.3V	R2081	401 260 4102	MT-GLAZE 75 JA 1/3W
C7202	403 069 9500	CERAMIC 0.01U Z 50V	R2082	401 038 0602	MT-GLAZE 220 JA 1/10W
C7211	403 162 6208	ELECT 1U M 50V	R2086	401 038 0800	MT-GLAZE 22K JA 1/10W
C7212	403 162 6604	ELECT 2.2U M 50V	R2087	401 037 5608	MT-GLAZE 10K JA 1/10W
C7213	403 162 6208	ELECT 1U M 50V	R2088	401 037 5400	MT-GLAZE 1K JA 1/10W
C7221	403 070 2606	CERAMIC 0.1U Z 50V	R2089	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
C7222	403 070 2606	CERAMIC 0.1U Z 50V	R3101	401 037 5608	MT-GLAZE 10K JA 1/10W
C7232	403 269 5906	CERAMIC 0.22U K 16V	R3102	401 038 9209	MT-GLAZE 6.8K JA 1/10W
C7233	403 269 5906	CERAMIC 0.22U K 16V	R3106	401 037 5202	MT-GLAZE 100 JA 1/10W
C7235	403 192 5905	CERAMIC 0.1U K 25V	R3111	401 037 5608	MT-GLAZE 10K JA 1/10W
C7236	403 269 5906	CERAMIC 0.22U K 16V	R3112	401 037 5400	MT-GLAZE 1K JA 1/10W
C7242	403 192 5905	CERAMIC 0.1U K 25V	R3113	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
C7245	403 192 5905	CERAMIC 0.1U K 25V	R3116	401 037 5608	MT-GLAZE 10K JA 1/10W
C7249	403 069 5601	CERAMIC 0.01U K 50V	R3117	401 037 5400	MT-GLAZE 1K JA 1/10W
C7251	403 162 4709	ELECT 10U M 16V	R3118	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
C7252	403 069 9500	CERAMIC 0.01U Z 50V	R3801	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
C7261	403 162 6000	ELECT 0.47U M 50V	R3802	401 037 5608	MT-GLAZE 10K JA 1/10W
C7263	403 314 5905	CERAMIC 0.47U K 16V	R3803	401 037 5608	MT-GLAZE 10K JA 1/10W
C7271	403 162 4709	ELECT 10U M 16V	R3804	401 037 5608	MT-GLAZE 10K JA 1/10W
C7272	403 192 5905	CERAMIC 0.1U K 25V	R3806	401 037 5608	MT-GLAZE 10K JA 1/10W
RESISTOR			R3807	401 037 5608	MT-GLAZE 10K JA 1/10W
RB3821	645 025 5380	R-NETWORK 10KX4 1/16W	R3808	401 037 5202	MT-GLAZE 100 JA 1/10W
	645 026 8014	R-NETWORK 10KX4 1/16W	R3809	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
RB3841	645 025 5380	R-NETWORK 10KX4 1/16W	R3811	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
	645 026 8014	R-NETWORK 10KX4 1/16W	R3812	401 037 5608	MT-GLAZE 10K JA 1/10W
RB3861	645 025 5380	R-NETWORK 10KX4 1/16W	R3813	401 037 5608	MT-GLAZE 10K JA 1/10W
	645 026 8014	R-NETWORK 10KX4 1/16W	R3816	401 037 5608	MT-GLAZE 10K JA 1/10W
R1001	401 260 4102	MT-GLAZE 75 JA 1/3W	R3817	401 037 5608	MT-GLAZE 10K JA 1/10W
R1002	401 260 4102	MT-GLAZE 75 JA 1/3W	R3818	401 037 5202	MT-GLAZE 100 JA 1/10W
R1003	401 260 4102	MT-GLAZE 75 JA 1/3W	R3821	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1011	401 260 4102	MT-GLAZE 75 JA 1/3W	R3831	401 037 5608	MT-GLAZE 10K JA 1/10W
R1012	401 260 4102	MT-GLAZE 75 JA 1/3W	R3832	401 038 3702	MT-GLAZE 33K JA 1/10W
R1013	401 260 4102	MT-GLAZE 75 JA 1/3W	R3841	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1021	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R3851	401 037 5608	MT-GLAZE 10K JA 1/10W
R1022	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R3852	401 038 3702	MT-GLAZE 33K JA 1/10W
R1026	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R3861	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1027	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R3862	401 037 5608	MT-GLAZE 10K JA 1/10W
R1081	401 038 6604	MT-GLAZE 470K JA 1/10W	R3863	401 037 5608	MT-GLAZE 10K JA 1/10W
R1082	401 038 6604	MT-GLAZE 470K JA 1/10W	R3864	401 037 5608	MT-GLAZE 10K JA 1/10W
R1083	401 038 6604	MT-GLAZE 470K JA 1/10W	R3866	401 037 5004	MT-GLAZE 0.000 ZA 1/10W



# 【 Electrical Parts List 】

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R3867	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R7214	401 038 0602	MT-GLAZE 220 JA 1/10W
R3868	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R7221	401 037 7701	MT-GLAZE 15 JA 1/10W
R3869	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R7222	401 037 7701	MT-GLAZE 15 JA 1/10W
R3871	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R7223	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R3881	401 037 5202	MT-GLAZE 100 JA 1/10W	R7224	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R3882	401 037 5202	MT-GLAZE 100 JA 1/10W	R7226	401 037 5202	MT-GLAZE 100 JA 1/10W
R3884	401 037 5202	MT-GLAZE 100 JA 1/10W	R7227	401 037 5202	MT-GLAZE 100 JA 1/10W
R3886	401 037 5202	MT-GLAZE 100 JA 1/10W	R7236	401 038 3702	MT-GLAZE 33K JA 1/10W
R5001	401 037 5202	MT-GLAZE 100 JA 1/10W	R7238	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R5002	401 037 5202	MT-GLAZE 100 JA 1/10W	R7239	401 150 4403	MT-GLAZE 12K FA 1/10W
R5006	401 038 3603	MT-GLAZE 3.3K JA 1/10W	R7240	401 150 4403	MT-GLAZE 12K FA 1/10W
R5007	401 038 3603	MT-GLAZE 3.3K JA 1/10W	R7249	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R5011	401 037 5707	MT-GLAZE 100K JA 1/10W	R7256	401 037 5707	MT-GLAZE 100K JA 1/10W
R5012	401 037 5707	MT-GLAZE 100K JA 1/10W	R7261	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R5013	401 037 5707	MT-GLAZE 100K JA 1/10W	R7262	401 037 5608	MT-GLAZE 10K JA 1/10W
R5016	401 037 5707	MT-GLAZE 100K JA 1/10W	R7266	401 037 5707	MT-GLAZE 100K JA 1/10W
R5017	401 037 5707	MT-GLAZE 100K JA 1/10W	R7267	401 038 0909	MT-GLAZE 220K JA 1/10W
R5018	401 037 5707	MT-GLAZE 100K JA 1/10W	R7268	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R5021	401 037 5400	MT-GLAZE 1K JA 1/10W	R7269	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R5022	401 038 7700	MT-GLAZE 5.6K JA 1/10W	R7291	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R5023	401 037 5202	MT-GLAZE 100 JA 1/10W	R7292	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R5024	401 038 3702	MT-GLAZE 33K JA 1/10W	R7293	401 037 5202	MT-GLAZE 100 JA 1/10W
R5025	401 037 9309	MT-GLAZE 18K JA 1/10W	COIL		
R5026	401 037 5400	MT-GLAZE 1K JA 1/10W	L1001	645 024 0669	FILTER, EMI 20PF
R5027	401 038 7700	MT-GLAZE 5.6K JA 1/10W	L1002	645 024 0669	FILTER, EMI 20PF
R5028	401 037 5202	MT-GLAZE 100 JA 1/10W	L1003	645 024 0669	FILTER, EMI 20PF
R5029	401 038 3702	MT-GLAZE 33K JA 1/10W	L1011	645 024 0669	FILTER, EMI 20PF
R5030	401 037 9309	MT-GLAZE 18K JA 1/10W	L1012	645 024 0669	FILTER, EMI 20PF
R5111	401 038 3702	MT-GLAZE 33K JA 1/10W	L1013	645 024 0669	FILTER, EMI 20PF
R5112	401 037 5608	MT-GLAZE 10K JA 1/10W	L1021	645 025 0637	FILTER, EMI 190PF
R5113	401 037 5400	MT-GLAZE 1K JA 1/10W	L1022	645 025 0637	FILTER, EMI 190PF
R5114	401 037 5202	MT-GLAZE 100 JA 1/10W	L1026	645 025 0637	FILTER, EMI 190PF
R5115	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	L1027	645 025 0637	FILTER, EMI 190PF
R5211	401 037 5202	MT-GLAZE 100 JA 1/10W	L1031	645 024 0669	FILTER, EMI 20PF
R5212	401 037 5202	MT-GLAZE 100 JA 1/10W	L1032	645 024 0669	FILTER, EMI 20PF
R5213	401 037 5202	MT-GLAZE 100 JA 1/10W	L1033	645 024 0669	FILTER, EMI 20PF
R5216	401 037 5202	MT-GLAZE 100 JA 1/10W	L1036	645 025 0637	FILTER, EMI 190PF
R5217	401 037 5202	MT-GLAZE 100 JA 1/10W	L1037	645 025 0637	FILTER, EMI 190PF
R5218	401 037 5202	MT-GLAZE 100 JA 1/10W	L1061	645 014 2659	FILTER, EMI 10MHZ
R5221	401 158 6805	MT-GLAZE 10 FA 1/10W	L1062	645 014 2659	FILTER, EMI 10MHZ
R5222	401 158 6805	MT-GLAZE 10 FA 1/10W	L1063	645 014 2659	FILTER, EMI 10MHZ
R5223	401 158 6805	MT-GLAZE 10 FA 1/10W	L1064	645 014 2659	FILTER, EMI 10MHZ
R5231	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	L1066	645 014 2659	FILTER, EMI 10MHZ
R5232	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	L1067	645 014 2659	FILTER, EMI 10MHZ
R5233	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	L1068	645 014 2659	FILTER, EMI 10MHZ
R5234	401 037 5608	MT-GLAZE 10K JA 1/10W	L1071	645 014 2659	FILTER, EMI 10MHZ
R5236	401 037 5608	MT-GLAZE 10K JA 1/10W	L1072	645 014 2659	FILTER, EMI 10MHZ
R5237	401 037 5608	MT-GLAZE 10K JA 1/10W	L1073	645 014 2659	FILTER, EMI 10MHZ
R5238	401 037 5608	MT-GLAZE 10K JA 1/10W	L1074	645 014 2659	FILTER, EMI 10MHZ
R5239	401 037 5400	MT-GLAZE 1K JA 1/10W	L1076	645 014 2659	FILTER, EMI 10MHZ
R5241	401 038 0800	MT-GLAZE 22K JA 1/10W	L1077	645 014 2659	FILTER, EMI 10MHZ
R5242	401 038 0701	MT-GLAZE 2.2K JA 1/10W	L1078	645 014 2659	FILTER, EMI 10MHZ
R5243	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	L1081	645 014 2659	FILTER, EMI 10MHZ
R5261	401 037 5202	MT-GLAZE 100 JA 1/10W	L1082	645 014 2659	FILTER, EMI 10MHZ
R5266	401 038 0701	MT-GLAZE 2.2K JA 1/10W	L1083	645 014 2659	FILTER, EMI 10MHZ
R5267	401 038 0800	MT-GLAZE 22K JA 1/10W	L1084	645 014 2659	FILTER, EMI 10MHZ
R5268	401 037 7800	MT-GLAZE 150 JA 1/10W	L1091	645 025 5335	FILTER, EMI 2200PF
R5269	401 037 7800	MT-GLAZE 150 JA 1/10W	L1092	645 025 5335	FILTER, EMI 2200PF
R5271	401 037 7701	MT-GLAZE 15 JA 1/10W	L1093	645 025 5335	FILTER, EMI 2200PF
R5272	401 037 5202	MT-GLAZE 100 JA 1/10W	L1094	645 025 5335	FILTER, EMI 2200PF
R5276	401 037 5202	MT-GLAZE 100 JA 1/10W	L1096	645 025 5335	FILTER, EMI 2200PF
R5281	401 037 7701	MT-GLAZE 15 JA 1/10W	L1097	645 023 2978	INDUCTOR, 800 OHM
R5282	401 037 5202	MT-GLAZE 100 JA 1/10W	L1098	645 023 2978	INDUCTOR, 800 OHM
R5286	401 037 5202	MT-GLAZE 100 JA 1/10W	L2011	645 008 4904	INDUCTOR, 5.6U K
R6211	401 147 8704	MT-GLAZE 62 FA 1/10W		645 040 2906	INDUCTOR, 5.6U K
R6212	401 147 8704	MT-GLAZE 62 FA 1/10W	L2012	645 002 3910	FILTER, EMI 100MHZ
R6213	401 147 8704	MT-GLAZE 62 FA 1/10W	L2016	645 014 2659	FILTER, EMI 10MHZ
R6221	401 037 5103	MT-GLAZE 10 JA 1/10W	L2017	645 014 2659	FILTER, EMI 10MHZ
R6222	401 037 5103	MT-GLAZE 10 JA 1/10W	L2031	645 008 4904	INDUCTOR, 5.6U K
R6223	401 037 5103	MT-GLAZE 10 JA 1/10W		645 040 2906	INDUCTOR, 5.6U K
R6231	401 037 7909	MT-GLAZE 1.5K JA 1/10W	L2032	645 008 4904	INDUCTOR, 5.6U K
R6232	401 037 7909	MT-GLAZE 1.5K JA 1/10W		645 040 2906	INDUCTOR, 5.6U K
R6233	401 037 7909	MT-GLAZE 1.5K JA 1/10W	L2033	645 002 3910	FILTER, EMI 100MHZ
R6241	401 038 9506	MT-GLAZE 75 JA 1/10W	L2034	645 002 3910	FILTER, EMI 100MHZ
R6242	401 038 9506	MT-GLAZE 75 JA 1/10W	L2036	645 014 2659	FILTER, EMI 10MHZ
R6243	401 038 9506	MT-GLAZE 75 JA 1/10W	L2061	401 035 4108	MT-GLAZE 0.000 ZA 1/8W

# [ Electrical Parts List ]

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
L2062	645 002 3934	FILTER, EMI 50MHZ	D2034	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17
L2071	401 035 4108	MT-GLAZE 0.000 ZA 1/8W	D2036	407 187 8209	ZENER DIODE UDZ12B-TE-17
L2072	645 002 3934	FILTER, EMI 50MHZ	D2051	407 149 0807	DIODE 1SS355-TE-17
L2081	401 035 4108	MT-GLAZE 0.000 ZA 1/8W	D2054	407 149 0807	DIODE 1SS355-TE-17
L2082	645 002 3934	FILTER, EMI 50MHZ	D2061	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17
L5001	645 020 1776	INDUCTOR, 3.3U M	D2062	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17
L5116	645 020 1776	INDUCTOR, 3.3U M	D2071	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17
L5201	645 001 4512	INDUCTOR, 10U K	D2072	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17
L5202	645 001 4512	INDUCTOR, 10U K	D2081	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17
L6201	645 001 4512	INDUCTOR, 10U K	D2082	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17
L6202	645 001 4512	INDUCTOR, 10U K	D3831	407 179 1706	ZENER DIODE UDZ5. 1B-TE-17
DIODE			D3851	407 179 1706	ZENER DIODE UDZ5. 1B-TE-17
D1001	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17	D3881	407 149 0807	DIODE 1SS355-TE-17
D1002	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17	D3882	407 149 0807	DIODE 1SS355-TE-17
D1003	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17	D5011	407 179 1003	ZENER DIODE UDZ15B-TE17
D1006	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17	D5012	407 179 1003	ZENER DIODE UDZ15B-TE17
D1007	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17	D5013	407 179 1003	ZENER DIODE UDZ15B-TE17
D1008	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17	D5016	407 179 1003	ZENER DIODE UDZ15B-TE17
D1011	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17	D5017	407 179 1003	ZENER DIODE UDZ15B-TE17
D1012	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17	D5018	407 179 1003	ZENER DIODE UDZ15B-TE17
D1013	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17	D5271	407 179 4905	ZENER DIODE UDZ-TE-174. 7B
D1016	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17	D5281	407 179 4905	ZENER DIODE UDZ-TE-174. 7B
D1017	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17	D7221	407 179 4905	ZENER DIODE UDZ-TE-174. 7B
D1018	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17	D7222	407 179 4905	ZENER DIODE UDZ-TE-174. 7B
D1021	407 187 8209	ZENER DIODE UDZ12B-TE-17	D7261	407 149 0807	DIODE 1SS355-TE-17
D1022	407 187 8209	ZENER DIODE UDZ12B-TE-17	MISCELLANEOUS		
D1026	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17	K10A	645 009 8093	SOCKET, D-SUB 15P
D1027	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17	K10B	645 009 8093	SOCKET, D-SUB 15P
D1031	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17	K10C	645 009 8093	SOCKET, D-SUB 15P
D1032	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17	K10D	645 000 2595	SOCKET, DIN 8P
D1033	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17	K10DA	610 275 8573	EARTH BRKT M-DIN-M6RA
D1036	407 187 8209	ZENER DIODE UDZ12B-TE-17	K10E	645 000 2595	SOCKET, DIN 8P
D1037	407 187 8209	ZENER DIODE UDZ12B-TE-17	K10EA	610 275 8573	EARTH BRKT M-DIN-M6RA
D1060	407 187 8605	ZENER DIODE UDZ20B-TE-17	K10F	645 000 2571	JACK, PHONE D8. 0
D1061	407 187 8605	ZENER DIODE UDZ20B-TE-17	K10FA	610 266 0715	EARTH BRKT MIC-M6FA
D1062	407 187 8605	ZENER DIODE UDZ20B-TE-17	K10G	645 000 2571	JACK, PHONE D8. 0
D1063	407 187 8605	ZENER DIODE UDZ20B-TE-17	K10GA	610 266 0715	EARTH BRKT MIC-M6FA
D1064	407 187 8605	ZENER DIODE UDZ20B-TE-17	K10H	645 017 1680	JACK, PHONE D3. 6
D1065	407 187 8605	ZENER DIODE UDZ20B-TE-17	K10HA	610 266 0715	EARTH BRKT MIC-M6FA
D1066	407 187 8605	ZENER DIODE UDZ20B-TE-17	K10L	645 004 2904	PLUG, 4P
D1067	407 187 8605	ZENER DIODE UDZ20B-TE-17	K10M	645 004 2898	PLUG, 3P
D1068	407 187 8605	ZENER DIODE UDZ20B-TE-17	K10N	645 004 2898	PLUG, 3P
D1070	407 187 8605	ZENER DIODE UDZ20B-TE-17	K10P	645 025 0347	SOCKET, PWB-PWB 54P
D1071	407 187 8605	ZENER DIODE UDZ20B-TE-17	K10Q	645 025 0347	SOCKET, PWB-PWB 54P
D1072	407 187 8605	ZENER DIODE UDZ20B-TE-17	K20A	645 032 6950	JACK, RCA-3
D1073	407 187 8605	ZENER DIODE UDZ20B-TE-17	K20B	645 039 2269	JACK, RCA-3
D1074	407 187 8605	ZENER DIODE UDZ20B-TE-17	K20C	610 010 8295	SOCKET, DIN 4P
D1075	407 187 8605	ZENER DIODE UDZ20B-TE-17	K20CA	610 266 0708	EARTH BRKT ST-M6FA
D1076	407 187 8605	ZENER DIODE UDZ20B-TE-17	K20G	645 036 1326	TERMINAL
D1077	407 187 8605	ZENER DIODE UDZ20B-TE-17	X3801	645 021 1218	OSC, CERAMIC 8.00MHZ
D1078	407 187 8605	ZENER DIODE UDZ20B-TE-17		645 037 5187	OSC, CERAMIC 8.00MHZ
D1081	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17	X3811	645 021 1218	OSC, CERAMIC 8.00MHZ
D1082	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17		645 037 5187	OSC, CERAMIC 8.00MHZ
D1083	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17	X3821	645 021 1218	OSC, CERAMIC 8.00MHZ
D1084	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17		645 037 5187	OSC, CERAMIC 8.00MHZ
D1086	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17	X3841	645 021 1218	OSC, CERAMIC 8.00MHZ
D1087	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17		645 037 5187	OSC, CERAMIC 8.00MHZ
D1088	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17	X3861	645 024 8566	OSC, CERAMIC 6.00MHZ
D1089	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17		645 037 5217	OSC, CERAMIC 6.00MHZ
D1091	407 187 8209	ZENER DIODE UDZ12B-TE-17			
D1092	407 187 8209	ZENER DIODE UDZ12B-TE-17			
D1093	407 187 8209	ZENER DIODE UDZ12B-TE-17			
D1094	407 187 8209	ZENER DIODE UDZ12B-TE-17			
D1096	407 187 8209	ZENER DIODE UDZ12B-TE-17			
D1097	407 187 8209	ZENER DIODE UDZ12B-TE-17			
D1098	407 187 8209	ZENER DIODE UDZ12B-TE-17			
D1099	407 187 8209	ZENER DIODE UDZ12B-TE-17			
D2011	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17			
D2012	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17			
D2016	407 187 8209	ZENER DIODE UDZ12B-TE-17			
D2017	407 187 8209	ZENER DIODE UDZ12B-TE-17			
D2018	407 187 8209	ZENER DIODE UDZ12B-TE-17			
D2019	407 187 8209	ZENER DIODE UDZ12B-TE-17			
D2031	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17			
D2032	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17			
D2033	407 179 0501	ZENER DIODE UDZ6. 2B-TE-17			
			610 281 9991	ASSY, PWB, VIDEO MF6A	
			TRANSISTOR		
			Q106	405 014 4509	TR 2SC2412K T146 R
			Q108	405 014 4509	TR 2SC2412K T146 R
			Q111	405 002 0308	TR 2SA1037K T146 R
			Q1112	405 014 4509	TR 2SC2412K T146 R
			Q1113	405 014 4509	TR 2SC2412K T146 R
			Q1114	405 014 4509	TR 2SC2412K T146 R
			Q1116	405 014 4509	TR 2SC2412K T146 R
			Q1117	405 014 4509	TR 2SC2412K T146 R
			Q1118	405 014 4509	TR 2SC2412K T146 R
			Q114	405 002 0308	TR 2SA1037K T146 R
			Q117	405 002 0308	TR 2SA1037K T146 R
			Q1171	405 002 0308	TR 2SA1037K T146 R
			Q121	405 002 0308	TR 2SA1037K T146 R
			Q126	405 002 0308	TR 2SA1037K T146 R



# 【 Electrical Parts List 】

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
Q161	405 014 4509	TR 2SC2412K T146 R	C1166	403 069 9500	CERAMIC 0.01U Z 50V
Q2121	405 014 4509	TR 2SC2412K T146 R	C1167	403 069 9500	CERAMIC 0.01U Z 50V
Q2122	405 014 4509	TR 2SC2412K T146 R	C1171	403 069 5601	CERAMIC 0.01U K 50V
Q2123	405 002 0308	TR 2SA1037K T146 R	C1172	403 192 5905	CERAMIC 0.1U K 25V
Q2124	405 014 4509	TR 2SC2412K T146 R	C1173	403 314 5905	CERAMIC 0.47U K 16V
Q2161	405 014 4509	TR 2SC2412K T146 R	C1174	403 192 5905	CERAMIC 0.1U K 25V
Q2171	405 014 4509	TR 2SC2412K T146 R	C1176	403 314 5905	CERAMIC 0.47U K 16V
Q6101	405 002 0308	TR 2SA1037K T146 R	C1181	403 073 9107	CERAMIC 4700P K 50V
Q6111	405 014 4509	TR 2SC2412K T146 R	C1182	403 069 5601	CERAMIC 0.01U K 50V
Q6121	405 014 4509	TR 2SC2412K T146 R	C1183	403 162 6604	ELECT 2.2U M 50V
Q6126	405 014 4509	TR 2SC2412K T146 R	C1184	403 192 5905	CERAMIC 0.1U K 25V
Q6131	405 014 4509	TR 2SC2412K T146 R	C1185	403 192 5905	CERAMIC 0.1U K 25V
Q6141	405 014 4509	TR 2SC2412K T146 R	C1186	403 314 5905	CERAMIC 0.47U K 16V
Q6146	405 014 4509	TR 2SC2412K T146 R	C1191	403 073 7301	CERAMIC 470P K 50V
Q6151	405 014 4509	TR 2SC2412K T146 R	C1192	403 314 5905	CERAMIC 0.47U K 16V
Q6176	405 002 0308	TR 2SA1037K T146 R	C126	403 070 2606	CERAMIC 0.1U Z 50V
Q6183	405 014 4509	TR 2SC2412K T146 R	C131	403 175 4208	ELECT 47U M 10V
Q6186	405 002 0308	TR 2SA1037K T146 R	C132	403 070 2606	CERAMIC 0.1U Z 50V
Q6188	405 014 4509	TR 2SC2412K T146 R	C141	403 162 4709	ELECT 10U M 16V
Q6191	405 014 4509	TR 2SC2412K T146 R	C142	403 192 5905	CERAMIC 0.1U K 25V
Q6196	405 014 4509	TR 2SC2412K T146 R	C143	403 192 5905	CERAMIC 0.1U K 25V
INTEGRATED CIRCUIT			C146	403 162 4006	ELECT 22U M 6.3V
IC101	409 051 2900	IC TC4053BF(EL)	C147	403 070 2606	CERAMIC 0.1U Z 50V
IC1101	409 404 3509	IC CXA2076Q	C151	403 266 8207	NP-ELECT 10U M 16V
IC111	409 051 2900	IC TC4053BF(EL)	C156	403 266 8207	NP-ELECT 10U M 16V
IC121	409 436 3706	IC TDA9178T/N1	C161	403 314 5905	CERAMIC 0.47U K 16V
IC141	409 463 9306	IC EL5244CS	C162	403 162 4709	ELECT 10U M 16V
IC161	409 408 4205	IC TDA8395T/N3	C163	403 192 5905	CERAMIC 0.1U K 25V
IC171	410 300 4903	IC MM1041XM	C164	403 192 5905	CERAMIC 0.1U K 25V
IC176	410 300 4903	IC MM1041XM	C166	403 192 5905	CERAMIC 0.1U K 25V
IC181	409 383 1602	IC TDA4665T/V4-T	C167	403 018 0503	CERAMIC 22P J 50V
	409 435 3806	IC TDA4665T/V5T	C171	403 162 4006	ELECT 22U M 6.3V
IC191	409 429 6400	IC AD8055ART	C172	403 162 4709	ELECT 10U M 16V
IC2101	409 418 9504	IC TC9090AF	C173	403 070 2606	CERAMIC 0.1U Z 50V
IC2151	409 350 3400	IC LT1253CS8	C177	403 162 4709	ELECT 10U M 16V
IC2191	409 429 6400	IC AD8055ART	C178	403 070 2606	CERAMIC 0.1U Z 50V
IC6101	410 359 8303	IC SN74LS221NSR	C181	403 162 4709	ELECT 10U M 16V
IC6111	410 367 5103	IC SN74AHC1666HDCK	C182	403 314 5905	CERAMIC 0.47U K 16V
IC6121	409 400 7105	IC TC7W53FU-(TE12L)	C183	403 162 4709	ELECT 10U M 16V
IC6131	409 284 4306	IC LA7217M-TE-R	C184	403 192 5905	CERAMIC 0.1U K 25V
	409 441 8406	IC LA7217M-T-TRM	C186	403 192 5905	CERAMIC 0.1U K 25V
IC6161	409 051 2900	IC TC4053BF(EL)	C187	403 192 5905	CERAMIC 0.1U K 25V
CAPACITOR			C191	403 314 5905	CERAMIC 0.47U K 16V
C101	403 175 4505	ELECT 47U M 6.3V	C192	403 018 0503	CERAMIC 22P J 50V
C102	403 314 5905	CERAMIC 0.47U K 16V	C2101	403 175 4505	ELECT 47U M 6.3V
C103	403 280 0607	ELECT 220U M 6.3V	C2102	403 070 2606	CERAMIC 0.1U Z 50V
C104	403 070 2606	CERAMIC 0.1U Z 50V	C2103	403 175 4505	ELECT 47U M 6.3V
C105	403 070 2606	CERAMIC 0.1U Z 50V	C2104	403 070 2606	CERAMIC 0.1U Z 50V
C106	403 069 9500	CERAMIC 0.01U Z 50V	C2106	403 175 4505	ELECT 47U M 6.3V
C107	403 069 9500	CERAMIC 0.01U Z 50V	C2107	403 070 2606	CERAMIC 0.1U Z 50V
C108	403 069 9500	CERAMIC 0.01U Z 50V	C2108	403 175 4505	ELECT 47U M 6.3V
C109	403 069 9500	CERAMIC 0.01U Z 50V	C2109	403 070 2606	CERAMIC 0.1U Z 50V
C1101	403 229 3508	ELECT 100U M 16V	C2111	403 314 5905	CERAMIC 0.47U K 16V
C1102	403 314 5905	CERAMIC 0.47U K 16V	C2112	403 011 4904	CERAMIC 120P J 50V
C1103	403 314 5905	CERAMIC 0.47U K 16V	C2122	403 022 8205	CERAMIC 33P J 50V
C1104	403 314 5905	CERAMIC 0.47U K 16V	C2123	403 069 5601	CERAMIC 0.01U K 50V
C1105	403 314 5905	CERAMIC 0.47U K 16V	C2124	403 069 5601	CERAMIC 0.01U K 50V
C1106	403 175 4109	ELECT 22U M 16V	C2131	403 028 4102	CERAMIC 56P J 50V
C1107	403 314 5905	CERAMIC 0.47U K 16V	C2132	403 022 8205	CERAMIC 33P J 50V
C111	403 069 9500	CERAMIC 0.01U Z 50V	C2133	403 070 0909	CERAMIC 0.1U K 50V
C1111	403 012 1100	CERAMIC 13P J 50V	C2134	403 022 8205	CERAMIC 33P J 50V
C1112	403 012 1100	CERAMIC 13P J 50V	C2141	403 069 5601	CERAMIC 0.01U K 50V
C1113	403 010 8507	CERAMIC 12P J 50V	C2142	403 069 5601	CERAMIC 0.01U K 50V
C1114	403 012 6808	CERAMIC 15P J 50V	C2143	403 069 5601	CERAMIC 0.01U K 50V
C112	403 070 2606	CERAMIC 0.1U Z 50V	C2144	403 069 5601	CERAMIC 0.01U K 50V
C1121	403 069 9500	CERAMIC 0.01U Z 50V	C2146	403 069 5601	CERAMIC 0.01U K 50V
C1131	403 266 8207	NP-ELECT 10U M 16V	C2147	403 014 9203	CERAMIC 180P J 50V
C1132	403 266 8207	NP-ELECT 10U M 16V	C2148	403 069 5601	CERAMIC 0.01U K 50V
C1133	403 314 5905	CERAMIC 0.47U K 16V	C2149	403 175 4505	ELECT 47U M 6.3V
C1134	403 162 4709	ELECT 10U M 16V	C2151	403 175 4109	ELECT 22U M 16V
C1135	403 314 5905	CERAMIC 0.47U K 16V	C2152	403 070 2606	CERAMIC 0.1U Z 50V
C1136	403 192 5905	CERAMIC 0.1U K 25V	C2166	403 162 4709	ELECT 10U M 16V
C1137	403 192 5905	CERAMIC 0.1U K 25V	C2171	403 018 0503	CERAMIC 22P J 50V
C1138	403 162 4709	ELECT 10U M 16V	C2176	403 162 4709	ELECT 10U M 16V
C1139	403 069 5601	CERAMIC 0.01U K 50V	C2181	403 018 0503	CERAMIC 22P J 50V
C1165	403 069 9500	CERAMIC 0.01U Z 50V	C2193TM	403 020 8009	CERAMIC 3P C 50V

# 【 Electrical Parts List 】

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C6101	403 280 0607	ELECT 220U M 6.3V	R127	401 037 5400	MT-GLAZE 1K JA 1/10W
C6102	403 070 2606	CERAMIC 0.1U Z 50V	R128	401 037 7909	MT-GLAZE 1.5K JA 1/10W
C6106	403 033 4500	CERAMIC 82P J 50V	R129	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
C6107	403 033 4500	CERAMIC 82P J 50V	R131	401 258 7504	MT-GLAZE 12 JA 1/3W
C6111	403 070 2606	CERAMIC 0.1U Z 50V	R132	401 037 5202	MT-GLAZE 100 JA 1/10W
C6112	403 162 4709	ELECT 10U M 16V	R133	401 037 5707	MT-GLAZE 100K JA 1/10W
C6116	403 266 8207	NP-ELECT 10U M 16V	R134	401 037 5707	MT-GLAZE 100K JA 1/10W
C6121	403 070 2606	CERAMIC 0.1U Z 50V	R135	401 037 5707	MT-GLAZE 100K JA 1/10W
C6122	403 162 4006	ELECT 22U M 6.3V	R136	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
C6123	403 009 5708	CERAMIC 100P J 50V	R138	401 037 7800	MT-GLAZE 150 JA 1/10W
C6131	403 280 0607	ELECT 220U M 6.3V	R139	401 037 7800	MT-GLAZE 150 JA 1/10W
C6132	403 192 5905	CERAMIC 0.1U K 25V	R141	401 037 5608	MT-GLAZE 10K JA 1/10W
C6133	403 215 2508	CERAMIC 0.056U K 50V	R142	401 038 3603	MT-GLAZE 3.3K JA 1/10W
C6134	403 072 1607	CERAMIC 0.022U K 50V	R143	401 037 5400	MT-GLAZE 1K JA 1/10W
C6136	403 162 6208	ELECT 1U M 50V	R144	401 037 5400	MT-GLAZE 1K JA 1/10W
C6137	403 162 6208	ELECT 1U M 50V	R151	401 178 9008	MT-GLAZE 120 FA 1/10W
C6138	403 075 4803	CERAMIC 820P K 50V	R152	401 092 3502	MT-GLAZE 22K FA 1/10W
C6139	403 069 5601	CERAMIC 0.01U K 50V	R153	401 092 2406	MT-GLAZE 2.2K FA 1/10W
C6161	403 175 4109	ELECT 22U M 16V	R154	401 092 2406	MT-GLAZE 2.2K FA 1/10W
C6162	403 207 0505	CERAMIC 0.47U Z 16V	R156	401 112 7602	MT-GLAZE 1K FA 1/10W
C6163	403 175 4109	ELECT 22U M 16V	R157	401 092 3502	MT-GLAZE 22K FA 1/10W
C6164	403 070 2606	CERAMIC 0.1U Z 50V	R158	401 092 2406	MT-GLAZE 2.2K FA 1/10W
C6176	403 018 0503	CERAMIC 22P J 50V	R159	401 092 2406	MT-GLAZE 2.2K FA 1/10W
C6191	403 070 2606	CERAMIC 0.1U Z 50V	R161	401 037 6902	MT-GLAZE 120K JA 1/10W
C6196	403 070 2606	CERAMIC 0.1U Z 50V	R162	401 038 0909	MT-GLAZE 220K JA 1/10W
RESISTOR			R163	401 037 5400	MT-GLAZE 1K JA 1/10W
R101	401 218 9203	MT-GLAZE 100 JA 1/3W	R164	401 037 5202	MT-GLAZE 100 JA 1/10W
R102	401 218 9203	MT-GLAZE 100 JA 1/3W	R166	401 037 5608	MT-GLAZE 10K JA 1/10W
R106	401 037 5400	MT-GLAZE 1K JA 1/10W	R167	401 037 5400	MT-GLAZE 1K JA 1/10W
R107	401 037 5202	MT-GLAZE 100 JA 1/10W	R171	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R108	401 037 5608	MT-GLAZE 10K JA 1/10W	R172	401 143 9408	MT-GLAZE 220 FA 1/10W
R109	401 037 5707	MT-GLAZE 100K JA 1/10W	R173	401 089 7605	MT-GLAZE 3.3K FA 1/10W
R111	401 037 5400	MT-GLAZE 1K JA 1/10W	R176	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1111	401 038 6307	MT-GLAZE 470 JA 1/10W	R177	401 178 9008	MT-GLAZE 120 FA 1/10W
R1112	401 038 7809	MT-GLAZE 56K JA 1/10W	R178	401 089 7605	MT-GLAZE 3.3K FA 1/10W
R1113	401 038 7809	MT-GLAZE 56K JA 1/10W	R181	401 240 7307	MT-GLAZE 8.2 JA 1/3W
R1114	401 038 7809	MT-GLAZE 56K JA 1/10W	R182	401 240 7307	MT-GLAZE 8.2 JA 1/3W
R1115	401 037 7909	MT-GLAZE 1.5K JA 1/10W	R183	401 037 5400	MT-GLAZE 1K JA 1/10W
R112	401 037 5400	MT-GLAZE 1K JA 1/10W	R192	401 037 5400	MT-GLAZE 1K JA 1/10W
R1121	401 037 5707	MT-GLAZE 100K JA 1/10W	R193	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R1122	401 037 5707	MT-GLAZE 100K JA 1/10W	R196	401 092 3304	MT-GLAZE 1.2K FA 1/10W
R1123	401 037 5707	MT-GLAZE 100K JA 1/10W	R197	401 092 1904	MT-GLAZE 2.7K FA 1/10W
R1126	401 037 5707	MT-GLAZE 100K JA 1/10W	R198	401 037 5400	MT-GLAZE 1K JA 1/10W
R1127	401 037 5707	MT-GLAZE 100K JA 1/10W	R2111	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1128	401 037 5400	MT-GLAZE 1K JA 1/10W	R2112	401 037 5608	MT-GLAZE 10K JA 1/10W
R1129	401 037 5707	MT-GLAZE 100K JA 1/10W	R2116	401 037 7800	MT-GLAZE 150 JA 1/10W
R1139	401 037 5608	MT-GLAZE 10K JA 1/10W	R2117	401 037 7800	MT-GLAZE 150 JA 1/10W
R114	401 038 0701	MT-GLAZE 2.2K JA 1/10W	R2121	401 037 5202	MT-GLAZE 100 JA 1/10W
R1141	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R2122	401 037 5400	MT-GLAZE 1K JA 1/10W
R115	401 037 5400	MT-GLAZE 1K JA 1/10W	R2123	401 037 5400	MT-GLAZE 1K JA 1/10W
R1165	401 037 5608	MT-GLAZE 10K JA 1/10W	R2124	401 037 5400	MT-GLAZE 1K JA 1/10W
R1166	401 037 5608	MT-GLAZE 10K JA 1/10W	R2126	401 037 6803	MT-GLAZE 12K JA 1/10W
R1167	401 037 5608	MT-GLAZE 10K JA 1/10W	R2127	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R1168	401 038 0701	MT-GLAZE 2.2K JA 1/10W	R2128	401 037 5400	MT-GLAZE 1K JA 1/10W
R1169	401 037 9200	MT-GLAZE 1.8K JA 1/10W	R2129	401 037 5400	MT-GLAZE 1K JA 1/10W
R117	401 038 0701	MT-GLAZE 2.2K JA 1/10W	R2131	401 037 7909	MT-GLAZE 1.5K JA 1/10W
R1171	401 038 6307	MT-GLAZE 470 JA 1/10W	R2132	401 038 7601	MT-GLAZE 560 JA 1/10W
R1172	401 038 2101	MT-GLAZE 2.7K JA 1/10W	R2133	401 037 5400	MT-GLAZE 1K JA 1/10W
R1173	401 037 5202	MT-GLAZE 100 JA 1/10W	R2134	401 037 5400	MT-GLAZE 1K JA 1/10W
R1174	401 037 5400	MT-GLAZE 1K JA 1/10W	R2141	401 039 0403	MT-GLAZE 8.2K JA 1/10W
R1175	401 037 5400	MT-GLAZE 1K JA 1/10W	R2142	401 037 6803	MT-GLAZE 12K JA 1/10W
R1176	401 037 7800	MT-GLAZE 150 JA 1/10W	R2143	401 039 0304	MT-GLAZE 820 JA 1/10W
R1178	401 038 3603	MT-GLAZE 3.3K JA 1/10W	R2144	401 038 5102	MT-GLAZE 3.9K JA 1/10W
R1179	401 037 5400	MT-GLAZE 1K JA 1/10W	R2146	401 037 5608	MT-GLAZE 10K JA 1/10W
R118	401 037 5400	MT-GLAZE 1K JA 1/10W	R2147	401 037 5608	MT-GLAZE 10K JA 1/10W
R1181	401 038 6307	MT-GLAZE 470 JA 1/10W	R2161	401 037 5202	MT-GLAZE 100 JA 1/10W
R1182	401 037 5608	MT-GLAZE 10K JA 1/10W	R2162	401 037 5400	MT-GLAZE 1K JA 1/10W
R1183	401 038 7700	MT-GLAZE 5.6K JA 1/10W	R2163	401 112 7602	MT-GLAZE 1K FA 1/10W
R1186	401 038 3801	MT-GLAZE 330K JA 1/10W	R2164	401 092 3304	MT-GLAZE 1.2K FA 1/10W
R1187	401 037 5202	MT-GLAZE 100 JA 1/10W	R2166	401 111 5005	MT-GLAZE 100K FA 1/10W
R1188	401 037 5202	MT-GLAZE 100 JA 1/10W	R2167	401 100 5207	MT-GLAZE 15K FA 1/10W
R1191	401 037 8005	MT-GLAZE 15K JA 1/10W	R2168	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R121	401 038 7601	MT-GLAZE 560 JA 1/10W	R2171	401 037 5400	MT-GLAZE 1K JA 1/10W
R122	401 037 5400	MT-GLAZE 1K JA 1/10W	R2172	401 037 5400	MT-GLAZE 1K JA 1/10W
R124	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R2173	401 112 7602	MT-GLAZE 1K FA 1/10W
R126	401 038 7601	MT-GLAZE 560 JA 1/10W	R2174	401 112 7602	MT-GLAZE 1K FA 1/10W

# **Electrical Parts List**

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R2176	401 111 5005	MT-GLAZE 100K FA 1/10W	L2107	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R2177	401 147 9107	MT-GLAZE 39K FA 1/10W	L2108	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R2178	401 037 5400	MT-GLAZE 1K JA 1/10W	L2121	645 004 2409	INDUCTOR, 33U J
R2181	401 092 2406	MT-GLAZE 2.2K FA 1/10W	L2122	645 004 2430	INDUCTOR, 56U J
R2182	401 037 5202	MT-GLAZE 100 JA 1/10W	L2161	645 025 6066	FILTER, LP 7MHZ
R2183	401 112 7602	MT-GLAZE 1K FA 1/10W	L2171	645 025 6066	FILTER, LP 7MHZ
R2184	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	L2181	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R2186	401 092 2406	MT-GLAZE 2.2K FA 1/10W	L6161	645 020 1776	INDUCTOR, 3.3U M
R2187	401 089 7704	MT-GLAZE 8.2K FA 1/10W	DIODE		
R2192	401 037 5400	MT-GLAZE 1K JA 1/10W	D101	407 179 1706	ZENER DIODE UDZ5.1B-TE-17
R2193	401 038 3603	MT-GLAZE 3.3K JA 1/10W	D102	407 149 0807	DIODE 1SS355-TE-17
R6101	401 258 7504	MT-GLAZE 12 JA 1/3W	D1168	407 149 0807	DIODE 1SS355-TE-17
R6102	401 038 7809	MT-GLAZE 56K JA 1/10W	D161	407 149 0807	DIODE 1SS355-TE-17
R6106	401 038 3702	MT-GLAZE 33K JA 1/10W	D191	407 149 0807	DIODE 1SS355-TE-17
R6107	401 037 9408	MT-GLAZE 180K JA 1/10W	D6106	407 149 0807	DIODE 1SS355-TE-17
R6108	401 037 5707	MT-GLAZE 100K JA 1/10W	D6107	407 149 0807	DIODE 1SS355-TE-17
R6109	401 039 0601	MT-GLAZE 820K JA 1/10W	MISCELLANEOUS		
R6111	401 258 7504	MT-GLAZE 12 JA 1/3W	TP2101	645 036 5010	TERMINAL
R6112	401 037 5608	MT-GLAZE 10K JA 1/10W	TP6131	645 036 5010	TERMINAL
R6113	401 038 0800	MT-GLAZE 22K JA 1/10W	K20H	645 005 6949	PLUG, SIDE-ZR-SW3 6P
R6116	401 037 5202	MT-GLAZE 100 JA 1/10W	K20J	645 005 6970	PLUG, SIDE-ZR-SW3 9P
R6117	401 037 5400	MT-GLAZE 1K JA 1/10W	K20K	645 005 6963	PLUG, SIDE-ZR-SW3 8P
R6118	401 037 5400	MT-GLAZE 1K JA 1/10W	K20L	645 038 1645	PLUG, SIDE-ZR-SW3 12P
R6121	401 103 7703	MT-GLAZE 1.5K FA 1/10W	K20M	645 005 8387	PLUG, 6P
R6122	401 038 0800	MT-GLAZE 22K JA 1/10W	X1111	645 024 8801	OSC, CRYSTAL 4.433619MHZ
R6123	401 037 5608	MT-GLAZE 10K JA 1/10W		645 025 1122	OSC, CRYSTAL 4.433619MHZ
R6126	401 037 5202	MT-GLAZE 100 JA 1/10W	X1112	645 024 8788	OSC, CRYSTAL 3.579545MHZ
R6128	401 037 5400	MT-GLAZE 1K JA 1/10W		645 025 1108	OSC, CRYSTAL 3.579545MHZ
R6129	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	X1113	645 028 1372	OSC, CRYSTAL 3.575611MHZ
R6131	401 037 5103	MT-GLAZE 10 JA 1/10W		645 028 1402	OSC, CRYSTAL 3.575611MHZ
R6132	401 037 8104	MT-GLAZE 150K JA 1/10W	X1114	645 028 1365	OSC, CRYSTAL 3.582056MHZ
R6133	401 038 5102	MT-GLAZE 3.9K JA 1/10W		645 028 1389	OSC, CRYSTAL 3.582056MHZ
R6134	401 038 7601	MT-GLAZE 560 JA 1/10W	X1181	610 012 0532	OSC, CERAMIC 500.0KHZ
R6136	401 037 5400	MT-GLAZE 1K JA 1/10W	X6131	645 006 3459	OSC, CERAMIC 500.0KHZ
R6137	401 037 5400	MT-GLAZE 1K JA 1/10W			
R6141	401 037 5400	MT-GLAZE 1K JA 1/10W	610 281 8918	ASSY, PWB, SUB POWER MF6A	
R6142	401 037 9309	MT-GLAZE 18K JA 1/10W	TRANSISTOR		
R6143	401 037 5400	MT-GLAZE 1K JA 1/10W	Q6601	405 014 4509	TR 2SC2412K T146 R
R6144	401 037 5103	MT-GLAZE 10 JA 1/10W	INTEGRATED CIRCUIT		
R6146	401 037 5400	MT-GLAZE 1K JA 1/10W	IC6601	410 344 0404	IC LT1585CT-3.45
R6147	401 037 5400	MT-GLAZE 1K JA 1/10W	CAPACITOR		
R6148	401 037 5400	MT-GLAZE 1K JA 1/10W	CN6AH	645 008 3389	PLUG, 15P
R6149	401 037 5103	MT-GLAZE 10 JA 1/10W	C6601	403 121 2609	ELECT 220U M 16V
R6151	401 037 5400	MT-GLAZE 1K JA 1/10W	C6602	403 042 3006	ELECT 100U M 16V
R6152	401 038 7700	MT-GLAZE 5.6K JA 1/10W	C6603	403 042 3006	ELECT 100U M 16V
R6153	401 037 5400	MT-GLAZE 1K JA 1/10W	C6604	403 042 3006	ELECT 100U M 16V
R6154	401 037 5103	MT-GLAZE 10 JA 1/10W	C6605	403 121 2609	ELECT 220U M 16V
R6161	401 037 5608	MT-GLAZE 10K JA 1/10W	C6606	403 042 3006	ELECT 100U M 16V
R6162	401 038 7809	MT-GLAZE 56K JA 1/10W	C6608	403 070 2606	CERAMIC 0.1U Z 50V
R6163	401 037 5608	MT-GLAZE 10K JA 1/10W	C6609	403 199 9708	ELECT 470U M 25V
R6171	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	C6611	403 070 2606	CERAMIC 0.1U Z 50V
R6172	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	C6612	403 208 6001	ELECT 2200U M 6.3V
R6174	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	C6613	403 208 6001	ELECT 2200U M 6.3V
R6176	401 037 5400	MT-GLAZE 1K JA 1/10W	C6614	403 070 2606	CERAMIC 0.1U Z 50V
R6177	401 037 5202	MT-GLAZE 100 JA 1/10W	C6616	403 208 6001	ELECT 2200U M 6.3V
R6181	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	C6617	403 070 2606	CERAMIC 0.1U Z 50V
R6182	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	C6618	403 070 2606	CERAMIC 0.1U Z 50V
R6183	401 037 5103	MT-GLAZE 10 JA 1/10W	C6619	403 208 6001	ELECT 2200U M 6.3V
R6184	401 037 5400	MT-GLAZE 1K JA 1/10W	C6622	403 039 7307	ELECT 100U M 10V
R6186	401 037 5202	MT-GLAZE 100 JA 1/10W	RESISTOR		
R6187	401 037 5400	MT-GLAZE 1K JA 1/10W	R6601	401 260 8308	MT-GLAZE 18 JA 1/3W
R6188	401 037 5400	MT-GLAZE 1K JA 1/10W	R6602	401 285 1605	MT-GLAZE 15 JA 1/3W
R6192	401 037 5608	MT-GLAZE 10K JA 1/10W	R6603	401 240 7208	MT-GLAZE 33 JA 1/3W
R6193	401 037 5707	MT-GLAZE 100K JA 1/10W	R6604	401 285 1704	MT-GLAZE 27 JA 1/3W
R6197	401 037 5608	MT-GLAZE 10K JA 1/10W	R6605	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R6198	401 037 5707	MT-GLAZE 100K JA 1/10W	R6606	401 260 8308	MT-GLAZE 18 JA 1/3W
TRANSFORMER			R6607	401 285 1605	MT-GLAZE 15 JA 1/3W
TE2101	645 036 5010	TERMINAL	R6608	401 285 1704	MT-GLAZE 27 JA 1/3W
COIL			R6609	401 260 8407	MT-GLAZE 22 JA 1/3W
L141	645 001 4512	INDUCTOR, 10U K	R6613	401 037 5608	MT-GLAZE 10K JA 1/10W
L171	645 001 4512	INDUCTOR, 10U K	R6614	401 037 5608	MT-GLAZE 10K JA 1/10W
L2101	645 020 1776	INDUCTOR, 3.3U M	R6616	401 037 5608	MT-GLAZE 10K JA 1/10W
L2102	645 020 1776	INDUCTOR, 3.3U M	R6617	401 037 5608	MT-GLAZE 10K JA 1/10W
L2103	645 020 1776	INDUCTOR, 3.3U M	R6621	401 101 5800	OXIDE-MT 0.68 JA 2W
L2104	645 020 1776	INDUCTOR, 3.3U M	R6623	401 066 5204	OXIDE-MT 22 JA 2W
L2106	401 035 4108	MT-GLAZE 0.000 ZA 1/8W	R6624	401 066 5204	OXIDE-MT 22 JA 2W

# [ Electrical Parts List ]

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R6625	401 101 5800	OXIDE-MT 0.68 JA 2W	R1657	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R6634	401 038 7700	MT-GLAZE 5.6K JA 1/10W	R1661	401 037 5400	MT-GLAZE 1K JA 1/10W
COIL			R1662	401 287 1900	MT-GLAZE 910 JA 1/3W
L6601	610 229 3531	CORE	R1663	401 038 0602	MT-GLAZE 220 JA 1/10W
L6611	645 007 8002	INDUCTOR, 15U K	R1664	401 038 3603	MT-GLAZE 3.3K JA 1/10W
L6612	645 007 7975	INDUCTOR, 100U K	R1665	401 066 3002	OXIDE-MT 2.2 JA 2W
DIODE			R1666	401 278 4804	MT-GLAZE 3.3 JA 1/3W
D6601	407 149 0807	DIODE 1SS355-TE-17	R1670	401 280 6704	MT-GLAZE 390 JA 1/3W
D6602	407 149 0807	DIODE 1SS355-TE-17	R1671	401 037 7909	MT-GLAZE 1.5K JA 1/10W
D6603	407 149 0807	DIODE 1SS355-TE-17	R1672	401 038 0701	MT-GLAZE 2.2K JA 1/10W
D6604	407 149 0807	DIODE 1SS355-TE-17	R1681	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
D6608	407 149 0807	DIODE 1SS355-TE-17	R1692	401 069 0404	OXIDE-MT 6.8 JA 2W
D6611	407 149 0807	DIODE 1SS355-TE-17	R1693	401 066 9103	OXIDE-MT 27 JA 2W
D6612	407 149 0807	DIODE 1SS355-TE-17	R1697	401 069 0404	OXIDE-MT 6.8 JA 2W
D6613	407 149 0807	DIODE 1SS355-TE-17	R1698	401 067 8204	OXIDE-MT 39 JA 2W
D6614	407 149 0807	DIODE 1SS355-TE-17	COIL		
D6616	407 149 0807	DIODE 1SS355-TE-17	L1651	645 007 8118	INDUCTOR, 390U K
MISCELLANEOUS			DIODE		
IC6601A	610 283 2129	HEAT SINK POWER C-MF6A	D1651	407 179 1706	ZENER DIODE UD25.1B-TE-17
IC6601C	610 283 4239	HOLDER HEAT SINK-MF6A	D1652	407 149 0807	DIODE 1SS355-TE-17
K6E	645 006 0946	PLUG, 7P	D1653	407 149 0807	DIODE 1SS355-TE-17
K6F	645 005 8226	PLUG, 3P	D1656	407 149 0807	DIODE 1SS355-TE-17
K6G	645 006 0953	PLUG, 8P	D1691	407 149 0807	DIODE 1SS355-TE-17
K6H	645 006 0878	PLUG, 12P	D1696	407 149 0807	DIODE 1SS355-TE-17
K6K	645 005 8226	PLUG, 3P	MISCELLANEOUS		
K6L	645 005 8226	PLUG, 3P	K16BB	645 008 3365	PLUG, 12P
K6M	645 005 8226	PLUG, 3P	K16FF	645 006 0922	PLUG, 5P
K6N	645 005 8226	PLUG, 3P	K16GG	645 006 0939	PLUG, 6P
K6P	645 006 0915	PLUG, 4P	K16T	645 004 2706	PLUG, 4P
■ 610 281 8925	ASSY, PWB, AUDIO MF6A		■ 610 286 1723	POWER MF6F SERVICE	
INTEGRATED CIRCUIT			□A01	ASSY, PWB, HIC-A M6SA	
IC1651	409 402 7905	IC LA4227	C01	403 074 9502	CERAMIC 680P K 50V
IC1652	409 367 1604	IC BH3540AFS-E2	C02	403 075 2304	CERAMIC 0.068U Z 50V
IC1653	409 124 5302	IC L78M05T-TR	C03	403 070 2606	CERAMIC 0.1U Z 50V
IC1691	409 367 2809	IC BA178M09T	C04	403 030 7009	CERAMIC 68P J 50V
IC1692	409 367 2809	IC BA178M09T	C05	403 069 5601	CERAMIC 0.01U K 50V
CAPACITOR			C06	403 073 7301	CERAMIC 470P K 50V
C1651	403 228 5602	ELECT 100U M 25V	C07	403 073 1200	CERAMIC 0.033U K 50V
C1652	403 233 0302	ELECT 100U M 16V	C08	403 072 1607	CERAMIC 0.022U K 50V
C1653	403 233 0302	ELECT 100U M 16V	C10	403 070 2606	CERAMIC 0.1U Z 50V
C1654	403 233 0302	ELECT 100U M 16V	C11	403 070 2606	CERAMIC 0.1U Z 50V
C1655	403 199 9708	ELECT 470U M 25V	D01	407 004 1000	DIODE DCC010-TB
C1656	403 237 8007	MT-COMPO 0.1U J 50V	D02	407 004 1000	DIODE DCC010-TB
C1657	403 199 9708	ELECT 470U M 25V	IC01	409 406 7000	IC FA5331M
C1658	403 258 3203	ELECT 22U M 16V	K1	610 225 9421	TERMINAL 10P
C1659	403 199 9708	ELECT 470U M 25V	Q01	405 014 4509	TR 2SC2412K T146 R
C1661	403 199 9708	ELECT 470U M 25V	Q02	405 002 0308	TR 2SA1037K T146 R
C1662	403 233 0302	ELECT 100U M 16V	R01	401 038 0800	MT-GLAZE 22K JA 1/10W
C1663	403 233 0302	ELECT 100U M 16V	R02	401 037 5608	MT-GLAZE 10K JA 1/10W
C1665	403 070 2606	CERAMIC 0.1U Z 50V	R03	401 157 0903	MT-GLAZE 3.9M JA 1/10W
C1666	403 237 8007	MT-COMPO 0.1U J 50V	R04	401 038 0503	MT-GLAZE 22 JA 1/10W
C1667	403 199 9708	ELECT 470U M 25V	R05	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
C1668	403 258 3203	ELECT 22U M 16V	R06	401 038 5508	MT-GLAZE 4.7 JA 1/10W
C1671	403 070 2606	CERAMIC 0.1U Z 50V	R07	401 038 3504	MT-GLAZE 330 JA 1/10W
C1672	403 258 3203	ELECT 22U M 16V	R08	401 037 5202	MT-GLAZE 100 JA 1/10W
C1673	403 258 3203	ELECT 22U M 16V	R09	401 037 7909	MT-GLAZE 1.5K JA 1/10W
C1675	403 232 9702	ELECT 220U M 6.3V	R11	401 038 6604	MT-GLAZE 470K JA 1/10W
C1679	403 070 2606	CERAMIC 0.1U Z 50V	R12	401 037 9408	MT-GLAZE 180K JA 1/10W
C1682	403 258 3203	ELECT 22U M 16V	R13	401 148 2701	MT-GLAZE 1.1K FA 1/10W
C1683	403 258 3203	ELECT 22U M 16V	R14	401 092 3304	MT-GLAZE 1.2K FA 1/10W
C1689	403 233 0302	ELECT 100U M 16V	VR01	645 017 7446	VR, SEMI, 1K M
C1691	403 199 9708	ELECT 470U M 25V		645 041 5333	VR, SEMI, 1K M
C1692	403 070 2606	CERAMIC 0.1U Z 50V	□A51	ASSY, PWB, HIC-B M6SA	
C1693	403 070 2606	CERAMIC 0.1U Z 50V	C51	403 256 2406	CERAMIC 0.22U Z 50V
C1694	403 208 6308	ELECT 220U M 16V	DZ51	407 071 7806	ZENER DIODE DZD6.8Z-TA
C1696	403 199 9708	ELECT 470U M 25V		407 198 6607	ZD 02CZ6.8Z(TE85R)
C1697	403 070 2606	CERAMIC 0.1U Z 50V	D51	407 149 0807	DIODE 1SS355-TE-17
C1698	403 070 2606	CERAMIC 0.1U Z 50V	K02	610 225 9384	TERMINAL 6P
C1699	403 208 6308	ELECT 220U M 16V	K03	610 225 9377	TERMINAL 5P
RESISTOR			△PC51	408 014 9703	PC CNY17F-30PT1+6
R1651	401 037 5004	MT-GLAZE 0.000 ZA 1/10W		408 016 8803	PC PC113 (VDE0884)
R1652	401 287 1900	MT-GLAZE 910 JA 1/3W	△PC52	408 014 9703	PC CNY17F-30PT1+6
R1653	401 038 0602	MT-GLAZE 220 JA 1/10W		408 016 8803	PC PC113 (VDE0884)
R1654	401 038 3603	MT-GLAZE 3.3K JA 1/10W	△PC53	408 014 9703	PC CNY17F-30PT1+6
R1656	401 278 4804	MT-GLAZE 3.3 JA 1/3W			



# 【 Electrical Parts List 】

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
	408 016 8803	PC PC113 (VDE0884)		403 301 2405	ELECT 1000U M 16V
Q51	405 014 4509	TR 2SC2412K T146 R	C671	403 126 4707	ELECT 220U M 16V
Q52	405 014 4509	TR 2SC2412K T146 R	C672	403 148 0404	ELECT 1000U M 25V
Q53	405 014 4509	TR 2SC2412K T146 R		403 301 7103	ELECT 1000U M 25V
R51	401 037 5400	MT-GLAZE 1K JA 1/10W	C673	403 148 0404	ELECT 1000U M 25V
R52	401 038 7601	MT-GLAZE 560 JA 1/10W		403 301 7103	ELECT 1000U M 25V
R53	401 037 5103	MT-GLAZE 10 JA 1/10W	C674	403 069 9500	CERAMIC 0.01U Z 50V
R54	401 037 5400	MT-GLAZE 1K JA 1/10W	C682	403 070 2606	CERAMIC 0.1U Z 50V
R55	401 037 9309	MT-GLAZE 18K JA 1/10W	C683	403 148 0404	ELECT 1000U M 25V
R56	401 038 0701	MT-GLAZE 2.2K JA 1/10W		403 301 7103	ELECT 1000U M 25V
R57	401 038 0701	MT-GLAZE 2.2K JA 1/10W	DB601	407 202 7705	DIODE D10XB60
R58	401 037 6803	MT-GLAZE 12K JA 1/10W	DB601A	610 077 7613	SILICON GREASE G-746
R59	401 037 5608	MT-GLAZE 10K JA 1/10W		610 077 7781	SILICON GREASE
R61	401 038 9209	MT-GLAZE 6.8K JA 1/10W	DB601B	411 174 4709	SCR S-TPG PAN+SWW 3X10
R62	401 037 7909	MT-GLAZE 1.5K JA 1/10W	DB601H	610 276 0439	HEAT SINK POWER A-M6SA
			DS601	407 175 2400	THYRISTOR CR12AM-12
□	ASSY, PWB, POWER MF6A		DS601A	610 077 7613	SILICON GREASE G-746
CN6AB	645 008 3679	SOCKET, 15P		610 077 7781	SILICON GREASE
CN6BB	645 005 8615	SOCKET, 12P	DS601B	411 174 4808	SCR S-TPG PAN+SWW 3X8
△C601	404 078 8706	MT-POLYEST 0.47U M 275V	DS602	407 175 2400	THYRISTOR CR12AM-12
△C602	404 078 8706	MT-POLYEST 0.47U M 275V	DZ631	407 071 0104	ZENER DIODE DZD12Y-TA
△C603	404 081 4702	MT-POLYEST 0.22U M 275V		407 175 2806	ZD 02CZ12Y(Te85R)
C606	404 044 2806	CERAMIC 470P K 400V	D601	407 174 2302	DIODE AK06
C608	404 059 9203	CERAMIC 1000P M 400V	D602	407 191 3900	DIODE FML-G16S
C609	404 059 9203	CERAMIC 1000P M 400V	D602A	610 077 7613	SILICON GREASE G-746
C611	403 165 6007	CERAMIC 1000P K 1K		610 077 7781	SILICON GREASE
C612	403 165 6007	CERAMIC 1000P K 1K	D602B	411 174 4709	SCR S-TPG PAN+SWW 3X10
C613	403 126 4608	ELECT 100U M 25V	D602H	610 276 0446	HEAT SINK POWER B-M6SA
C614	403 126 4608	ELECT 100U M 25V	D603	407 190 4106	DIODE SFPL-52V
C616	403 275 6003	MT-POLYEST 1.5U J 400V	D605	407 190 4106	DIODE SFPL-52V
C617	403 148 1807	ELECT 220U M 35V	D615	407 103 1505	ZENER DIODE RD22M-T1BB3
C618	404 081 6102	ELECT 220U M 450V		407 198 9004	ZD 02CZ22Z(Te85R)
C619	403 323 8706	MT-POLYEST 0.047U K 450V	D621	407 149 0807	DIODE 1SS355-TE-17
C621	403 165 6007	CERAMIC 1000P K 1K	D622	407 149 0807	DIODE 1SS355-TE-17
C622	403 071 3503	CERAMIC 0.018U K 50V	D630	407 056 9306	ZENER DIODE RD5.1M-T1BB2
C631	403 156 9000	ELECT 2.2U M 50V		407 056 9405	ZENER DIODE RD5.1M-T2BB3
C632	403 237 7901	MT-COMPO 0.22U J 50V	D631	407 149 0807	DIODE 1SS355-TE-17
C633	403 069 1702	CERAMIC 1000P K 50V	D632	407 190 4106	DIODE SFPL-52V
C634	403 165 8803	CERAMIC 330P K 2K	D633	407 100 6909	DIODE AG01
C636	403 070 2606	CERAMIC 0.1U Z 50V	D661	407 202 9808	DIODE FMB-26L
C637	403 167 8603	CERAMIC 220P K 2K	D661A	610 077 7613	SILICON GREASE G-746
C638	403 333 3500	POLYPRO 0.022U J 630V		610 077 7781	SILICON GREASE
C639	403 074 9502	CERAMIC 680P K 50V	D661B	411 174 4808	SCR S-TPG PAN+SWW 3X8
C640	403 070 2606	CERAMIC 0.1U Z 50V	D661H	610 282 2847	HEAT SINK POWER A-MF6A
C641	403 156 8805	ELECT 1U M 50V	D662	407 164 2206	DIODE FMB-24L
C642	403 148 1807	ELECT 220U M 35V	D662A	610 077 7613	SILICON GREASE G-746
C643	403 070 2606	CERAMIC 0.1U Z 50V		610 077 7781	SILICON GREASE
C644	403 166 9809	TA-SOLID 0.47U M 25V	D662B	411 174 4808	SCR S-TPG PAN+SWW 3X8
C651	403 148 0701	ELECT 2200U M 25V	D663	407 190 4106	DIODE SFPL-52V
	403 313 6002	ELECT 2200U M 25V	D665	407 206 9804	DIODE SFPB-52V
C652	403 148 0404	ELECT 1000U M 25V	D666	407 202 9808	DIODE FMB-26L
	403 301 7103	ELECT 1000U M 25V	D666A	610 077 7613	SILICON GREASE G-746
C653	403 119 7609	ELECT 2200U M 10V		610 077 7781	SILICON GREASE
	403 313 5906	ELECT 2200U M 10V	D666B	411 174 4808	SCR S-TPG PAN+SWW 3X8
C654	403 119 7609	ELECT 2200U M 10V	D667	407 149 0807	DIODE 1SS355-TE-17
	403 313 5906	ELECT 2200U M 10V	D669	407 149 0807	DIODE 1SS355-TE-17
C655	403 148 0404	ELECT 1000U M 25V	FB602	610 229 3531	CORE
	403 301 7103	ELECT 1000U M 25V	FB603	610 229 3531	CORE
C656	403 070 2606	CERAMIC 0.1U Z 50V	FB606	610 229 3531	CORE
C657	403 070 2606	CERAMIC 0.1U Z 50V	FB607	610 229 3531	CORE
C658	403 148 0404	ELECT 1000U M 25V	FB608	610 229 3531	CORE
	403 301 7103	ELECT 1000U M 25V	FB611	610 229 3531	CORE
C659	403 155 5607	ELECT 220U M 10V	FB612	610 229 3531	CORE
C660	403 148 0404	ELECT 1000U M 25V	IC601	409 421 4701	IC STR-Z2156
	403 301 7103	ELECT 1000U M 25V	IC601A	610 077 7613	SILICON GREASE G-746
C661	403 156 9208	ELECT 4.7U M 50V		610 077 7781	SILICON GREASE
C662	403 119 7609	ELECT 2200U M 10V	IC601B1	411 047 0104	SCR PAN+SW+W 3X8
	403 313 5906	ELECT 2200U M 10V	IC601B2	411 047 0104	SCR PAN+SW+W 3X8
C663	403 119 7609	ELECT 2200U M 10V	IC601H	610 273 6595	HEAT SINK D-M6RA
	403 313 5906	ELECT 2200U M 10V	IC661	410 229 0901	IC SI-3120CA LF1113
C665	403 134 6403	ELECT 2200U M 16V	IC661A	610 077 7613	SILICON GREASE G-746
C666	403 134 6403	ELECT 2200U M 16V		610 077 7781	SILICON GREASE
C667	403 126 4707	ELECT 220U M 16V	IC661B	411 174 4808	SCR S-TPG PAN+SWW 3X8
C668	403 126 4707	ELECT 220U M 16V	IC661H	610 093 6522	RADIATOR-A3RA-D
C669	403 069 9500	CERAMIC 0.01U Z 50V	IC662	409 308 8600	IC SE005N
C670	403 148 0107	ELECT 1000U M 16V	IC663	409 444 8106	IC LM2931CD



# **[ Electrical Parts List ]**

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
J604	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	R638	401 038 0909	MT-GLAZE 220K JA 1/10W
KL601	645 004 2898	PLUG, 3P	R639	401 037 8005	MT-GLAZE 15K JA 1/10W
K6A	645 032 5885	PLUG, 2P	R640	401 263 0101	MT-GLAZE 100K JA 1W
K6B	645 005 9315	PLUG, 2P	R641	401 263 0101	MT-GLAZE 100K JA 1W
ΔL601	645 025 7810	LINE FILTER	R642	401 263 0101	MT-GLAZE 100K JA 1W
L601A1	ZAV9700SJ09-	C-SONY BOND*SC901	R643	402 081 2902	FUSIBLE RES 22 JH 1/2W
	610 077 8696	ADHESIVE 150G	R644	401 238 4509	MT-GLAZE 47 JA 1/3W
L601A2	ZAV9700SJ09-	C-SONY BOND*SC901	R645	401 037 5707	MT-GLAZE 100K JA 1/10W
	610 077 8696	ADHESIVE 150G	R646	401 037 5400	MT-GLAZE 1K JA 1/10W
ΔL602	645 025 7810	LINE FILTER	R647	401 257 7406	MT-GLAZE 120 JA 1/3W
L602A1	ZAV9700SJ09-	C-SONY BOND*SC901	R648	401 037 5608	MT-GLAZE 10K JA 1/10W
	610 077 8696	ADHESIVE 150G	R649	401 263 0101	MT-GLAZE 100K JA 1W
L602A2	ZAV9700SJ09-	C-SONY BOND*SC901	R653	401 038 5300	MT-GLAZE 39K JA 1/10W
	610 077 8696	ADHESIVE 150G	R654	401 037 5608	MT-GLAZE 10K JA 1/10W
L603	645 032 8497	INDUCTOR, 850U	R655	401 038 0602	MT-GLAZE 220 JA 1/10W
L603A1	ZAV9700SJ09-	C-SONY BOND*SC901	R656	401 038 1807	MT-GLAZE 27 JA 1/10W
	610 077 8696	ADHESIVE 150G	R657	401 037 5400	MT-GLAZE 1K JA 1/10W
L661	645 007 7968	INDUCTOR, 10U M	R658	401 037 8005	MT-GLAZE 15K JA 1/10W
L662	645 007 7968	INDUCTOR, 10U M	R659	401 037 5707	MT-GLAZE 100K JA 1/10W
L664	645 007 7968	INDUCTOR, 10U M	R660	401 038 7700	MT-GLAZE 5.6K JA 1/10W
L665	645 007 8057	INDUCTOR, 220U K	R661	401 037 8005	MT-GLAZE 15K JA 1/10W
L671	645 007 7968	INDUCTOR, 10U M	R662	401 037 5707	MT-GLAZE 100K JA 1/10W
PC621	407 145 4908	PC TLP121 GB TPL	R663	401 037 5608	MT-GLAZE 10K JA 1/10W
PTH601	408 037 4600	THERMISTOR NTH11D8R0LA	R664	401 038 6406	MT-GLAZE 4.7K JA 1/10W
Q601	405 140 3704	TR 2SK2698	R665	401 038 5300	MT-GLAZE 39K JA 1/10W
Q601A	610 263 7175	SPACER TC-30CG(TO-3P)	R666	401 230 4705	MT-GLAZE 680 JA 1W
Q601B	411 154 3104	SCR S-TPG PAN+SWW 3X12	R668	401 238 4400	MT-GLAZE 2.7K JA 1/3W
Q621	405 002 0308	TR 2SA1037K T146 R	R669	401 038 6505	MT-GLAZE 47K JA 1/10W
Q623	405 002 0308	TR 2SA1037K T146 R	R670	401 037 8005	MT-GLAZE 15K JA 1/10W
Q661	405 144 6503	TR 2SK2312	R672	401 037 5707	MT-GLAZE 100K JA 1/10W
Q662	405 144 6503	TR 2SK2312	R673	401 037 5400	MT-GLAZE 1K JA 1/10W
Q663	405 014 4509	TR 2SC2412K T146 R	R674	401 038 7601	MT-GLAZE 560 JA 1/10W
Q664	405 138 1309	TR 2SB1565-E	R675	401 037 5608	MT-GLAZE 10K JA 1/10W
	405 138 1408	TR 2SB1565-F	R677	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
Q664A	610 282 4209	HEAT SINK POWER B-MF6A	R678	401 037 5202	MT-GLAZE 100 JA 1/10W
Q664B	610 077 7613	SILICON GREASE G-746	R679	401 037 5400	MT-GLAZE 1K JA 1/10W
	610 077 7781	SILICON GREASE	R680	401 038 7809	MT-GLAZE 56K JA 1/10W
Q665	405 002 0308	TR 2SA1037K T146 R	R681	401 038 5003	MT-GLAZE 390 JA 1/10W
Q666	405 014 4509	TR 2SC2412K T146 R	R682	401 038 0701	MT-GLAZE 2.2K JA 1/10W
Q671	405 144 6503	TR 2SK2312	R683	401 263 0101	MT-GLAZE 100K JA 1W
Q671A	610 282 4209	HEAT SINK POWER B-MF6A	R684	401 263 0101	MT-GLAZE 100K JA 1W
Q672	405 014 4509	TR 2SC2412K T146 R	R685	401 038 7809	MT-GLAZE 56K JA 1/10W
Q673	405 002 0308	TR 2SA1037K T146 R	TSW601	645 027 4145	SWITCH, THERMAL
R601	401 008 8607	CARBON 220K JA 1/2W		645 031 0256	THERMOSTATS
R602	401 237 0007	MT-GLAZE 47K JA 1W	TSW601A	610 077 7613	SILICON GREASE G-746
R603	401 237 0007	MT-GLAZE 47K JA 1W		610 077 7781	SILICON GREASE
R604	401 237 0007	MT-GLAZE 47K JA 1W	TSW601B	411 174 4709	SCR S-TPG PAN+SWW 3X10
R605	401 237 0007	MT-GLAZE 47K JA 1W	ΔT631	645 033 1381	TRANS, POWER, PULSE
R606	401 237 0007	MT-GLAZE 47K JA 1W	ΔVA601	407 130 2902	VARISTOR ENC471D-14A
R607	401 237 0007	MT-GLAZE 47K JA 1W	VR01A	610 221 1931	
R608	402 079 1900	RESISTOR 0.22 JA 2W	VR661	645 002 3491	VR, SEMI, 2.2K S
R609	402 079 1900	RESISTOR 0.22 JA 2W	VR663	645 002 7031	VR, SEMI, 220 S
R611	401 242 3901	MT-GLAZE 240K JA 1/2W			
R612	401 242 3901	MT-GLAZE 240K JA 1/2W			
R613	401 038 0602	MT-GLAZE 220 JA 1/10W			
R614	401 258 8204	MT-GLAZE 680 JA 1/3W			
R616	402 080 8806	MT-GLAZE 680 KA 1W			
R618	401 259 9002	MT-GLAZE 150K FA 1/2W			
	401 260 0500	MT-GLAZE 150K FD 1/2W			
R619	401 259 9002	MT-GLAZE 150K FA 1/2W			
	401 260 0500	MT-GLAZE 150K FD 1/2W			
R621	401 259 9002	MT-GLAZE 150K FA 1/2W			
	401 260 0500	MT-GLAZE 150K FD 1/2W			
R622	401 259 9002	MT-GLAZE 150K FA 1/2W			
	401 260 0500	MT-GLAZE 150K FD 1/2W			
R626	401 183 7501	MT-GLAZE 560 JA 1/2W			
R627	401 037 9101	MT-GLAZE 180 JA 1/10W			
R628	401 037 7800	MT-GLAZE 150 JA 1/10W			
R629	401 038 0503	MT-GLAZE 22 JA 1/10W			
R631	401 038 0503	MT-GLAZE 22 JA 1/10W			
R632	401 038 3603	MT-GLAZE 3.3K JA 1/10W			
R633	401 038 3603	MT-GLAZE 3.3K JA 1/10W			
R634	401 038 6505	MT-GLAZE 47K JA 1/10W			
R635	401 038 9209	MT-GLAZE 6.8K JA 1/10W			
R636	401 038 2309	MT-GLAZE 270K JA 1/10W			
R637	401 038 9308	MT-GLAZE 68K JA 1/10W			

# 【 Electrical Parts List 】

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
■ 610 283 6004 ASSY, PWB, LED MF6A			■ ACCESSORIES		
CAPACITOR			AA9901 645 038 7814 ASSY, REMOCON CXFA		
C1801	403 070 2606	CERAMIC 0.1U Z 50V	A9901C 610 283 3867	RC-BATTERY LID-CXFJ	
C1803	403 070 2606	CERAMIC 0.1U Z 50V	645 031 8207	ADAPTOR, MAC/IBM	
C1804	403 070 2606	CERAMIC 0.1U Z 50V	610 276 9845	COVER, DUST-M6SA	
RESISTOR			645 030 6624	CABLE, INTERFACE VGA	
R1801	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	645 039 7196	CABLE, MOUSE MAC	
R1802	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	645 039 7202	CABLE, MOUSE PS/2	
R1803	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	645 039 7219	CABLE, MOUSE SRAL	
R1804	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	Use only PLC-XP17E		
R1806	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	610 282 3103	OWNER'S MANUAL-PH6A	009PH6A
R1807	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	610 282 3110	OWNER'S MANUAL-PH6A-D	
R1808	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	610 282 3127	OWNER'S MANUAL-PH6A-F	
R1809	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	610 282 3134	OWNER'S MANUAL-PH6A-I	
R1816	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	610 282 3141	OWNER'S MANUAL-PH6A-E	
R1817	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	△ 645 002 9196	CORD, POWER-3. 0MK	
R1818	401 037 5004	MT-GLAZE 0.000 ZA 1/10W	Use only PLC-XP17B		
DIODE			610 282 3165	OWNER'S MANUAL-PH6C	009PH6C
D1801	407 196 9709	LED SEL4228C	△ 645 003 1137	CORD, POWER-3. 0MK	
D1801A	610 275 8269	HOLDER LED-M6SA			
D1802	407 196 9808	LED SEL4428E			
D1803	407 196 9709	LED SEL4228C			
D1804	407 196 9907	LED SEL4828A			
MISCELLANEOUS					
K18A	645 006 0953	PLUG, 8P			
K18B	645 005 8226	PLUG, 3P			
■ 610 283 6011 ASSY, PWB, RC-FRONT MF6A					
CAPACITOR					
C1881	403 071 6504	CERAMIC 220P K 50V			
C1882	403 316 5408	CERAMIC 1U K 10V			
RESISTOR					
R1881	401 037 5202	MT-GLAZE 100 JA 1/10W			
R1882	401 037 5202	MT-GLAZE 100 JA 1/10W			
MISCELLANEOUS					
AU1881	645 034 8310	UNIT, REMOCON RECEIVER			
K18D	645 005 8226	PLUG, 3P			
■ 610 283 6028 ASSY, PWB, RC-REAR MF6A					
CAPACITOR					
C1891	403 071 6504	CERAMIC 220P K 50V			
C1892	403 316 5408	CERAMIC 1U K 10V			
RESISTOR					
R1891	401 037 5202	MT-GLAZE 100 JA 1/10W			
R1892	401 037 5202	MT-GLAZE 100 JA 1/10W			
MISCELLANEOUS					
AU1891	645 034 8310	UNIT, REMOCON RECEIVER			
K18E	645 005 8226	PLUG, 3P			

# 【 Electrical Parts List 】

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
610 281 5450	ASSY, PWB, MAIN MF6A		IC304	410 358 1503	IC TC74HC4053AFT(EL)
TRANSISTOR			IC311	410 342 8808	IC MSM54V16258BSL-40TS-K
Q1101	405 014 4509	TR 2SC2412K T146 R	IC3201	410 342 3803	IC EPF6024AQC208-3
Q1103	405 002 0308	TR 2SA1037K T146 R		410 362 7201	IC EPF6024AQC208-3
Q1104	405 014 4509	TR 2SC2412K T146 R	IC3202	410 357 6301	IC EPC1441LC20-B592
Q1111	405 014 4509	TR 2SC2412K T146 R	IC3203	409 416 6406	IC BA033FP-E2
Q1112	405 014 4509	TR 2SC2412K T146 R		409 410 1001	IC UPC2933T-E1
Q1113	405 014 4509	TR 2SC2412K T146 R	IC321	410 342 8808	IC MSM54V16258BSL-40TS-K
Q1151	405 014 4509	TR 2SC2412K T146 R	IC3301	409 440 2900	IC LC24106A-PC7
Q1152	405 014 4509	TR 2SC2412K T146 R	IC3303	409 416 6406	IC BA033FP-E2
Q1153	405 014 4509	TR 2SC2412K T146 R		409 410 1001	IC UPC2933T-E1
Q1241	405 014 4509	TR 2SC2412K T146 R	IC3321	410 311 5708	IC MC74HCT244ADT
Q1801	405 014 4509	TR 2SC2412K T146 R		410 331 2107	IC HD74HCT244TVELL
Q201	405 014 4509	TR 2SC2412K T146 R	IC3331	410 315 5308	IC MC74ACT244DT
Q202	405 014 4509	TR 2SC2412K T146 R		410 331 2008	IC HD74ACT244TELL
Q203	405 014 4509	TR 2SC2412K T146 R		410 358 7406	IC SN74ACT244PWR
Q241	405 014 4509	TR 2SC2412K T146 R	IC3341	410 311 5708	IC MC74HCT244ADT
Q4101	405 014 4509	TR 2SC2412K T146 R		410 331 2107	IC HD74HCT244TVELL
Q4111	405 014 4509	TR 2SC2412K T146 R	IC3351	409 419 3709	IC MC10H351ML1
Q4113	405 014 4509	TR 2SC2412K T146 R	IC3371	410 325 4704	IC HD74LVC244AT
Q4121	405 014 4509	TR 2SC2412K T146 R	IC351	409 428 7101	IC AV9155C
Q4122	405 014 4509	TR 2SC2412K T146 R	IC352	409 416 6406	IC BA033FP-E2
Q4131	405 014 4509	TR 2SC2412K T146 R		409 410 1001	IC UPC2933T-E1
Q4132	405 014 4509	TR 2SC2412K T146 R	IC361	409 428 7101	IC AV9155C
Q4133	405 014 4509	TR 2SC2412K T146 R	IC371	409 483 0703	IC MPC948LFA
Q4134	405 014 4509	TR 2SC2412K T146 R	IC381	409 428 7507	IC MC74LCX04DT
Q4135	405 014 4509	TR 2SC2412K T146 R		409 429 2808	IC TC74LCX04FT-(EL)
Q4141	405 014 4509	TR 2SC2412K T146 R	IC401	409 326 3007	IC M62358FP
Q4142	405 014 4509	TR 2SC2412K T146 R	IC4101	410 365 2104	IC SN74LS221DBR
Q4143	405 014 4509	TR 2SC2412K T146 R	IC4111	410 365 2104	IC SN74LS221DBR
Q4144	405 014 4509	TR 2SC2412K T146 R	IC4121	410 365 2104	IC SN74LS221DBR
Q4145	405 002 0308	TR 2SA1037K T146 R	IC4131	409 465 0004	IC EL4581CS
Q4146	405 014 4509	TR 2SC2412K T146 R	IC4141	410 358 1503	IC TC74HC4053AFT(EL)
Q4147	405 014 4509	TR 2SC2412K T146 R	IC4151	410 300 4804	IC MM1031XM
Q4148	405 014 4509	TR 2SC2412K T146 R	IC4161	409 158 5804	IC TC74HC123AF-TP1
Q4149	405 002 0308	TR 2SA1037K T146 R	IC4171	409 152 5602	IC TC7S32F-TE85L
Q4150	405 014 4509	TR 2SC2412K T146 R	IC4201	410 356 7309	IC LC98500BT-SC0
Q4151	405 014 4509	TR 2SC2412K T146 R	IC4202	410 332 2601	IC MSM56V16160D-10TS-K
Q4152	405 014 4509	TR 2SC2412K T146 R		410 368 9100	IC MSM56V16160F-10TS-K
Q441	405 014 4509	TR 2SC2412K T146 R	IC4203	409 416 6406	IC BA033FP-E2
Q442	405 014 4509	TR 2SC2412K T146 R		409 410 1001	IC UPC2933T-E1
Q4801	405 002 0308	TR 2SA1037K T146 R	IC4231	410 362 6907	IC EPC1441LC20-B622
Q4802	405 002 0308	TR 2SA1037K T146 R	IC4241	410 325 4704	IC HD74LVC244AT
Q4803	405 002 0308	TR 2SA1037K T146 R	IC4242	410 325 4605	IC TC74LCX244FT
Q4804	405 002 0308	TR 2SA1037K T146 R	IC4251	410 352 0601	IC EPF10K30ATC144-3
Q4805	405 014 4509	TR 2SC2412K T146 R	IC4252	409 416 6406	IC BA033FP-E2
Q4808	405 014 4509	TR 2SC2412K T146 R		409 410 1001	IC UPC2933T-E1
Q4809	405 014 4509	TR 2SC2412K T146 R	IC4261	409 444 8700	IC ICS1523M-ER
Q4811	405 014 4509	TR 2SC2412K T146 R	IC441	409 241 9405	IC L88MS05T-TL
Q4812	405 014 4509	TR 2SC2412K T146 R	IC442	409 241 9405	IC L88MS05T-TL
Q4813	405 014 4509	TR 2SC2412K T146 R	IC461	409 419 2603	IC CXA2111R
INTEGRATED CIRCUIT			IC471	409 460 8302	IC CXD3503R
IC1101	409 449 2802	IC AN5393FBQ	IC4801	409 416 6406	IC BA033FP-E2
IC1121	410 365 2104	IC SN74LS221DBR		409 410 1001	IC UPC2933T-E1
IC1161	409 460 6704	IC CXD2303AQ	IC481	409 339 3605	IC 24LC16BT/SN-T
IC1201	410 336 5905	IC UPD67821	IC501	409 419 2702	IC CXA2112R
IC1202	409 416 6406	IC BA033FP-E2	IC5301	410 319 4000	IC UPD4811650GF-A10-9BT
	409 410 1001	IC UPC2933T-E1	IC531	409 419 2702	IC CXA2112R
IC1241	409 444 8700	IC ICS1523M-ER	IC5321	410 319 4000	IC UPD4811650GF-A10-9BT
IC1242	410 325 4605	IC TC74LCX244FT	IC5341	410 319 4000	IC UPD4811650GF-A10-9BT
IC1501	409 419 2702	IC CXA2112R	IC5361	410 335 5708	IC HD74ALVCH16374T
IC1531	409 419 2702	IC CXA2112R	IC5362	409 416 6406	IC BA033FP-E2
IC1561	409 419 2702	IC CXA2112R		409 410 1001	IC UPC2933T-E1
IC201	409 461 7304	IC AD8057ART	IC5501	409 465 3104	IC A3953SLB
IC202	409 461 7304	IC AD8057ART	IC5502	409 468 1701	IC BA06FP-E2
IC203	409 461 7304	IC AD8057ART	IC5531	409 465 3104	IC A3953SLB
IC204	409 470 2604	IC AD8183ARU	IC561	409 419 2702	IC CXA2112R
IC2201	410 308 6404	IC MB40988PFQ-G-MSBND	IC581	409 422 5400	IC MC74AC04DT
IC221	409 357 6602	IC LT1260CS		409 423 7205	IC TC74AC04FT
IC241	409 357 6602	IC LT1260CS		410 357 4208	IC SN74LV04APWR
IC2501	409 343 0201	IC LT1206CS8	IC801	410 366 4008	IC HD6437045E31F
IC261	409 444 0902	IC AD9483KS-100	IC802	409 344 1900	IC MN1382-Q-TX
IC281	409 444 0902	IC AD9483KS-100			
IC301	410 357 5403	IC UPD82559N7-001-H6			
IC303	409 431 6009	IC MC74VHC14DT			
	410 356 8009	IC SN74LV14APWR			

# 【 Electrical Parts List 】

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
IC803	410 378 9404	IC M5M29JB160AVP-10-B559B	C1161	403 164 0204	CERAMIC 0.1U Z 25V
IC804	410 365 1602	IC M5M51008BFP-70LL	C1162	403 175 4505	ELECT 47U M 6.3V
IC805	410 365 1602	IC M5M51008BFP-70LL	C1163	403 164 0204	CERAMIC 0.1U Z 25V
IC806	409 339 3605	IC 24LC16BT/SN-T	C1164	403 175 4505	ELECT 47U M 6.3V
IC807	409 443 9609	IC MC74HC32ADT	C1165	403 149 9208	CERAMIC 0.01U Z 50V
IC808	409 330 2508	IC TC7SH04FU-(TE85L)	C1166	403 149 9208	CERAMIC 0.01U Z 50V
	410 356 7606	IC SN74AHC1G04HDCR	C1167	403 164 0204	CERAMIC 0.1U Z 25V
IC809	409 403 6204	IC M66010GP	C1168	403 164 0204	CERAMIC 0.1U Z 25V
IC810	409 403 6204	IC M66010GP	C1170	403 164 0204	CERAMIC 0.1U Z 25V
IC831	410 311 5708	IC MC74HCT244ADT	C1171	403 175 4505	ELECT 47U M 6.3V
	410 315 5506	IC HD74HCT244TV	C1172	403 149 9208	CERAMIC 0.01U Z 50V
IC832	410 325 4605	IC TC74LCX244FT	C1173	403 149 9208	CERAMIC 0.01U Z 50V
CAPACITOR			C1174	403 164 0204	CERAMIC 0.1U Z 25V
C1101	403 164 0204	CERAMIC 0.1U Z 25V	C1175	403 164 0204	CERAMIC 0.1U Z 25V
C1102	403 175 4109	ELECT 22U M 16V	C1176	403 149 9208	CERAMIC 0.01U Z 50V
	403 335 0507	ELECT 22U M 16V	C1177	403 149 9208	CERAMIC 0.01U Z 50V
C1104	403 162 5300	ELECT 4.7U M 25V	C1178	403 164 0204	CERAMIC 0.1U Z 25V
C1105	403 266 8900	NP-ELECT 22U M 16V	C1181	403 157 3601	CERAMIC 100P J 50V
C1106	403 162 4709	ELECT 10U M 16V	C1182	403 157 3601	CERAMIC 100P J 50V
	403 335 0309	ELECT 10U M 16V	C1183	403 157 3601	CERAMIC 100P J 50V
C1107	403 164 0204	CERAMIC 0.1U Z 25V	C1191	403 325 6304	CERAMIC 0.22U K 10V
C1108	403 164 0204	CERAMIC 0.1U Z 25V	C1192	403 325 6304	CERAMIC 0.22U K 10V
C1109	403 164 0204	CERAMIC 0.1U Z 25V	C1193	403 325 6304	CERAMIC 0.22U K 10V
C1110	403 149 9208	CERAMIC 0.01U Z 50V	C1197	403 145 9905	CERAMIC 22P J 50V
C1111	403 149 9208	CERAMIC 0.01U Z 50V	C1198	403 145 9905	CERAMIC 22P J 50V
C1112	403 149 9208	CERAMIC 0.01U Z 50V	C1199	403 145 9905	CERAMIC 22P J 50V
C1113	403 164 0204	CERAMIC 0.1U Z 25V	C1201	403 322 7809	ELECT 220U M 6.3V
C1115	403 164 0204	CERAMIC 0.1U Z 25V	C1202	403 164 0204	CERAMIC 0.1U Z 25V
C1116	403 162 4709	ELECT 10U M 16V	C1203	403 113 3805	CERAMIC 1000P K 50V
	403 335 0309	ELECT 10U M 16V	C1204	403 164 0204	CERAMIC 0.1U Z 25V
C1117	403 164 0204	CERAMIC 0.1U Z 25V	C1205	403 113 3805	CERAMIC 1000P K 50V
C1118	403 304 3300	ELECT 47U M 16V	C1206	403 164 0204	CERAMIC 0.1U Z 25V
C1119	403 164 0204	CERAMIC 0.1U Z 25V	C1207	403 113 3805	CERAMIC 1000P K 50V
C1120	403 304 3300	ELECT 47U M 16V	C1208	403 164 0204	CERAMIC 0.1U Z 25V
C1121	403 164 0204	CERAMIC 0.1U Z 25V	C1209	403 113 3805	CERAMIC 1000P K 50V
C1122	403 304 3300	ELECT 47U M 16V	C1210	403 113 3805	CERAMIC 1000P K 50V
C1123	403 164 0204	CERAMIC 0.1U Z 25V	C1211	403 164 0204	CERAMIC 0.1U Z 25V
C1124	403 175 4505	ELECT 47U M 6.3V	C1212	403 113 3805	CERAMIC 1000P K 50V
C1125	403 175 4505	ELECT 47U M 6.3V	C1213	403 164 0204	CERAMIC 0.1U Z 25V
C1126	403 164 0204	CERAMIC 0.1U Z 25V	C1214	403 113 3805	CERAMIC 1000P K 50V
C1127	403 175 4109	ELECT 22U M 16V	C1215	403 322 7809	ELECT 220U M 6.3V
	403 335 0507	ELECT 22U M 16V	C1241	403 280 0508	ELECT 470U M 4V
C1128	403 164 0204	CERAMIC 0.1U Z 25V	C1242	403 164 0204	CERAMIC 0.1U Z 25V
C1129	403 149 9208	CERAMIC 0.01U Z 50V	C1243	403 175 3904	ELECT 10U M 25V
C1130	403 149 9208	CERAMIC 0.01U Z 50V		403 335 0804	ELECT 10U M 25V
C1131	403 149 9208	CERAMIC 0.01U Z 50V	C1244	403 164 0204	CERAMIC 0.1U Z 25V
C1132	403 149 9208	CERAMIC 0.01U Z 50V	C1245	403 175 3904	ELECT 10U M 25V
C1133	403 266 8108	NP-ELECT 1U M 50V		403 335 0804	ELECT 10U M 25V
C1134	403 266 8108	NP-ELECT 1U M 50V	C1246	403 164 0204	CERAMIC 0.1U Z 25V
C1135	403 266 8108	NP-ELECT 1U M 50V	C1247	403 155 1609	CERAMIC 33P J 50V
C1136	403 266 8108	NP-ELECT 1U M 50V	C1248	403 157 7302	CERAMIC 6800P K 50V
C1137	403 266 8108	NP-ELECT 1U M 50V	C1249	403 164 0204	CERAMIC 0.1U Z 25V
C1138	403 266 8108	NP-ELECT 1U M 50V	C1250	403 113 3805	CERAMIC 1000P K 50V
C1139	403 175 4109	ELECT 22U M 16V	C1251	403 164 0204	CERAMIC 0.1U Z 25V
	403 335 0507	ELECT 22U M 16V	C1252	403 149 9208	CERAMIC 0.01U Z 50V
C1140	403 164 0204	CERAMIC 0.1U Z 25V	C1253	403 175 3904	ELECT 10U M 25V
C1141	403 149 9208	CERAMIC 0.01U Z 50V		403 335 0804	ELECT 10U M 25V
C1142	403 149 9208	CERAMIC 0.01U Z 50V	C1254	403 113 3805	CERAMIC 1000P K 50V
C1143	403 149 9208	CERAMIC 0.01U Z 50V	C1256	403 113 3805	CERAMIC 1000P K 50V
C1144	403 149 9208	CERAMIC 0.01U Z 50V	C1257	403 164 0204	CERAMIC 0.1U Z 25V
C1145	403 266 8900	NP-ELECT 22U M 16V	C1304	403 164 0204	CERAMIC 0.1U Z 25V
C1146	403 266 8900	NP-ELECT 22U M 16V	C1501	403 229 3508	ELECT 100U M 16V
C1147	403 266 8900	NP-ELECT 22U M 16V		403 335 0408	ELECT 100U M 16V
C1148	403 280 1604	ELECT 220U M 16V	C1502	403 164 0204	CERAMIC 0.1U Z 25V
C1149	403 164 0204	CERAMIC 0.1U Z 25V	C1503	403 317 4509	ELECT 100U M 6.3V
C1151	403 157 4202	CERAMIC 220P J 50V		403 342 4307	ELECT 100U M 6.3V
C1152	403 157 4202	CERAMIC 220P J 50V	C1504	403 164 0204	CERAMIC 0.1U Z 25V
C1153	403 157 4202	CERAMIC 220P J 50V	C1506	403 229 3508	ELECT 100U M 16V
C1154	403 175 4109	ELECT 22U M 16V		403 335 0408	ELECT 100U M 16V
	403 335 0507	ELECT 22U M 16V	C1507	403 164 0204	CERAMIC 0.1U Z 25V
C1155	403 164 0204	CERAMIC 0.1U Z 25V	C1509	403 157 1904	CERAMIC 10P D 50V
C1157	403 157 3601	CERAMIC 100P J 50V	C1531	403 229 3508	ELECT 100U M 16V
C1158	403 162 4709	ELECT 10U M 16V		403 335 0408	ELECT 100U M 16V
	403 335 0309	ELECT 10U M 16V	C1532	403 164 0204	CERAMIC 0.1U Z 25V
C1159	403 164 0204	CERAMIC 0.1U Z 25V	C1533	403 317 4509	ELECT 100U M 6.3V
C1160	403 157 3601	CERAMIC 100P J 50V		403 342 4307	ELECT 100U M 6.3V

# 【 Electrical Parts List 】

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C1534	403 164 0204	CERAMIC 0.1U Z 25V	C251	403 283 6309	CERAMIC 1U Z 10V
C1536	403 229 3508	ELECT 100U M 16V		403 336 5600	CERAMIC 1U Z 10V
	403 335 0408	ELECT 100U M 16V	C2511	403 162 4709	ELECT 10U M 16V
C1537	403 164 0204	CERAMIC 0.1U Z 25V		403 335 0309	ELECT 10U M 16V
C1539	403 157 1904	CERAMIC 10P D 50V	C2512	403 164 0204	CERAMIC 0.1U Z 25V
C1561	403 229 3508	ELECT 100U M 16V	C2513	403 229 3508	ELECT 100U M 16V
	403 335 0408	ELECT 100U M 16V		403 335 0408	ELECT 100U M 16V
C1562	403 164 0204	CERAMIC 0.1U Z 25V	C2514	403 149 9208	CERAMIC 0.01U Z 50V
C1563	403 317 4509	ELECT 100U M 6.3V	C2516	403 164 0204	CERAMIC 0.1U Z 25V
	403 342 4307	ELECT 100U M 6.3V	C2517	403 322 6109	CERAMIC 2.2U Z 16V
C1564	403 164 0204	CERAMIC 0.1U Z 25V	C2518	403 175 4109	ELECT 22U M 16V
C1566	403 229 3508	ELECT 100U M 16V		403 335 0507	ELECT 22U M 16V
	403 335 0408	ELECT 100U M 16V	C2519	403 164 0204	CERAMIC 0.1U Z 25V
C1567	403 164 0204	CERAMIC 0.1U Z 25V	C252	403 162 4006	ELECT 22U M 6.3V
C1569	403 157 1904	CERAMIC 10P D 50V	C2521	403 162 4709	ELECT 10U M 16V
C1801	403 164 0204	CERAMIC 0.1U Z 25V		403 335 0309	ELECT 10U M 16V
C1802	403 164 0204	CERAMIC 0.1U Z 25V	C2522	403 322 6109	CERAMIC 2.2U Z 16V
C1803	403 164 0204	CERAMIC 0.1U Z 25V	C2523	403 164 0204	CERAMIC 0.1U Z 25V
C1804	403 164 0204	CERAMIC 0.1U Z 25V	C2524	403 175 4109	ELECT 22U M 16V
C1805	403 164 0204	CERAMIC 0.1U Z 25V		403 335 0507	ELECT 22U M 16V
C1821	403 164 0204	CERAMIC 0.1U Z 25V	C2526	403 164 0204	CERAMIC 0.1U Z 25V
C201	403 280 0805	ELECT 330U M 6.3V	C2527	403 162 4709	ELECT 10U M 16V
C202	403 164 0204	CERAMIC 0.1U Z 25V		403 335 0309	ELECT 10U M 16V
C203	403 280 0805	ELECT 330U M 6.3V	C253	403 164 0204	CERAMIC 0.1U Z 25V
C204	403 164 0204	CERAMIC 0.1U Z 25V	C254	403 149 9208	CERAMIC 0.01U Z 50V
C205	403 157 1904	CERAMIC 10P D 50V	C255	403 162 4006	ELECT 22U M 6.3V
C206	403 157 1904	CERAMIC 10P D 50V	C256	403 283 6309	CERAMIC 1U Z 10V
C207	403 157 1904	CERAMIC 10P D 50V		403 336 5600	CERAMIC 1U Z 10V
C208	403 157 1508	CERAMIC 3P C 50V	C257	403 162 4006	ELECT 22U M 6.3V
C209	403 157 1508	CERAMIC 3P C 50V	C258	403 164 0204	CERAMIC 0.1U Z 25V
C210	403 157 1508	CERAMIC 3P C 50V	C259	403 164 0204	CERAMIC 0.1U Z 25V
C211	403 267 0804	NP-ELECT 47U M 6.3V	C260	403 164 0204	CERAMIC 0.1U Z 25V
C212	403 267 0804	NP-ELECT 47U M 6.3V	C261	403 322 7809	ELECT 220U M 6.3V
C213	403 267 0804	NP-ELECT 47U M 6.3V	C262	403 164 0204	CERAMIC 0.1U Z 25V
C214	403 267 0804	NP-ELECT 47U M 6.3V	C263	403 322 7809	ELECT 220U M 6.3V
C215	403 267 0804	NP-ELECT 47U M 6.3V	C264	403 164 0204	CERAMIC 0.1U Z 25V
C216	403 267 0804	NP-ELECT 47U M 6.3V	C265	403 162 6208	ELECT 1U M 50V
C2201	403 164 0204	CERAMIC 0.1U Z 25V	C266	403 164 0204	CERAMIC 0.1U Z 25V
C2202	403 322 7809	ELECT 220U M 6.3V	C268	403 164 0204	CERAMIC 0.1U Z 25V
C2203	403 164 0204	CERAMIC 0.1U Z 25V	C269	403 164 0204	CERAMIC 0.1U Z 25V
C2204	403 164 0204	CERAMIC 0.1U Z 25V	C270	403 164 0204	CERAMIC 0.1U Z 25V
C2206	403 208 1402	TA-SOLID 1U M 25V	C272	403 164 0204	CERAMIC 0.1U Z 25V
C2207	403 164 0204	CERAMIC 0.1U Z 25V	C281	403 322 7809	ELECT 220U M 6.3V
C221	403 164 0204	CERAMIC 0.1U Z 25V	C282	403 164 0204	CERAMIC 0.1U Z 25V
C222	403 164 0204	CERAMIC 0.1U Z 25V	C283	403 322 7809	ELECT 220U M 6.3V
C223	403 164 0204	CERAMIC 0.1U Z 25V	C284	403 164 0204	CERAMIC 0.1U Z 25V
C224	403 164 0204	CERAMIC 0.1U Z 25V	C285	403 164 0204	CERAMIC 0.1U Z 25V
C225	403 280 1604	ELECT 220U M 16V	C286	403 164 0204	CERAMIC 0.1U Z 25V
C226	403 280 0805	ELECT 330U M 6.3V	C287	403 164 0204	CERAMIC 0.1U Z 25V
C227	403 164 0204	CERAMIC 0.1U Z 25V	C288	403 164 0204	CERAMIC 0.1U Z 25V
C231	403 153 9300	CERAMIC 82P J 50V	C291	403 164 0204	CERAMIC 0.1U Z 25V
C232	403 153 9300	CERAMIC 82P J 50V	C301	403 164 0204	CERAMIC 0.1U Z 25V
C233	403 153 9300	CERAMIC 82P J 50V	C302	403 322 7809	ELECT 220U M 6.3V
C234	403 153 9300	CERAMIC 82P J 50V	C303	403 164 0204	CERAMIC 0.1U Z 25V
C235	403 153 9300	CERAMIC 82P J 50V	C304	403 164 0204	CERAMIC 0.1U Z 25V
C236	403 153 9300	CERAMIC 82P J 50V	C305	403 113 3805	CERAMIC 1000P K 50V
C241	403 164 0204	CERAMIC 0.1U Z 25V	C306	403 164 0204	CERAMIC 0.1U Z 25V
C242	403 164 0204	CERAMIC 0.1U Z 25V	C307	403 164 0204	CERAMIC 0.1U Z 25V
C243	403 164 0204	CERAMIC 0.1U Z 25V	C308	403 113 3805	CERAMIC 1000P K 50V
C244	403 164 0204	CERAMIC 0.1U Z 25V	C309	403 164 0204	CERAMIC 0.1U Z 25V
C245	403 229 3508	ELECT 100U M 16V	C311	403 164 0204	CERAMIC 0.1U Z 25V
	403 335 0408	ELECT 100U M 16V	C312	403 164 0204	CERAMIC 0.1U Z 25V
C246	403 280 0805	ELECT 330U M 6.3V	C313	403 113 3805	CERAMIC 1000P K 50V
C247	403 164 0204	CERAMIC 0.1U Z 25V	C314	403 164 0204	CERAMIC 0.1U Z 25V
C250	403 162 4006	ELECT 22U M 6.3V	C315	403 164 0204	CERAMIC 0.1U Z 25V
C2501	403 229 3508	ELECT 100U M 16V	C316	403 113 3805	CERAMIC 1000P K 50V
	403 335 0408	ELECT 100U M 16V	C317	403 164 0204	CERAMIC 0.1U Z 25V
C2502	403 164 0204	CERAMIC 0.1U Z 25V	C318	403 113 3805	CERAMIC 1000P K 50V
C2503	403 229 3508	ELECT 100U M 16V	C319	403 164 0204	CERAMIC 0.1U Z 25V
	403 335 0408	ELECT 100U M 16V	C3201	403 164 0204	CERAMIC 0.1U Z 25V
C2504	403 164 0204	CERAMIC 0.1U Z 25V	C3202	403 164 0204	CERAMIC 0.1U Z 25V
C2506	403 322 6109	CERAMIC 2.2U Z 16V	C3203	403 164 0204	CERAMIC 0.1U Z 25V
C2507	403 164 0204	CERAMIC 0.1U Z 25V	C3204	403 164 0204	CERAMIC 0.1U Z 25V
C2508	403 175 4109	ELECT 22U M 16V	C3205	403 164 0204	CERAMIC 0.1U Z 25V
	403 335 0507	ELECT 22U M 16V	C3206	403 280 0508	ELECT 470U M 4V
C2509	403 164 0204	CERAMIC 0.1U Z 25V	C3207	403 164 0204	CERAMIC 0.1U Z 25V



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Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C3208	403 164 0204	CERAMIC 0.1U Z 25V	C390	403 164 0204	CERAMIC 0.1U Z 25V
C3209	403 164 0204	CERAMIC 0.1U Z 25V	C391	403 280 0508	ELECT 470U M 4V
C321	403 113 3805	CERAMIC 1000P K 50V	C392	403 164 0204	CERAMIC 0.1U Z 25V
C3211	403 164 0204	CERAMIC 0.1U Z 25V	C393	403 175 4109	ELECT 22U M 16V
C3212	403 164 0204	CERAMIC 0.1U Z 25V		403 335 0507	ELECT 22U M 16V
C3213	403 280 0508	ELECT 470U M 4V	C394	403 164 0204	CERAMIC 0.1U Z 25V
C3214	403 164 0204	CERAMIC 0.1U Z 25V	C401	403 298 9609	CERAMIC 0.1U K 16V
C3216	403 175 0606	ELECT 100U M 6.3V	C402	403 298 9609	CERAMIC 0.1U K 16V
C3217	403 149 9208	CERAMIC 0.01U Z 50V	C403	403 298 9609	CERAMIC 0.1U K 16V
C3218	403 175 0606	ELECT 100U M 6.3V	C404	403 322 7809	ELECT 220U M 6.3V
C3219	403 149 9208	CERAMIC 0.01U Z 50V	C406	403 164 0204	CERAMIC 0.1U Z 25V
C322	403 322 7809	ELECT 220U M 6.3V	C407	403 149 9208	CERAMIC 0.01U Z 50V
C323	403 164 0204	CERAMIC 0.1U Z 25V	C408	403 229 3508	ELECT 100U M 16V
C324	403 113 3805	CERAMIC 1000P K 50V		403 335 0408	ELECT 100U M 16V
C325	403 164 0204	CERAMIC 0.1U Z 25V	C4101	403 298 9609	CERAMIC 0.1U K 16V
C326	403 113 3805	CERAMIC 1000P K 50V	C4102	403 162 4709	ELECT 10U M 16V
C327	403 164 0204	CERAMIC 0.1U Z 25V		403 335 0309	ELECT 10U M 16V
C328	403 113 3805	CERAMIC 1000P K 50V	C4103	403 164 0204	CERAMIC 0.1U Z 25V
C329	403 164 0204	CERAMIC 0.1U Z 25V	C4104	403 157 3601	CERAMIC 100P J 50V
C330	403 322 7809	ELECT 220U M 6.3V	C4106	403 162 4709	ELECT 10U M 16V
C3301	403 322 7809	ELECT 220U M 6.3V		403 335 0309	ELECT 10U M 16V
C3302	403 164 0204	CERAMIC 0.1U Z 25V	C4107	403 157 3601	CERAMIC 100P J 50V
C3303	403 164 0204	CERAMIC 0.1U Z 25V	C4108	403 164 0204	CERAMIC 0.1U Z 25V
C3304	403 164 0204	CERAMIC 0.1U Z 25V	C4109	403 113 3805	CERAMIC 1000P K 50V
C3305	403 164 0204	CERAMIC 0.1U Z 25V	C4110	403 164 0204	CERAMIC 0.1U Z 25V
C3307	403 322 7809	ELECT 220U M 6.3V	C4111	403 155 1302	CERAMIC 150P J 50V
C3308	403 322 7809	ELECT 220U M 6.3V	C4112	403 162 4709	ELECT 10U M 16V
C3309	403 164 0204	CERAMIC 0.1U Z 25V		403 335 0309	ELECT 10U M 16V
C331	403 113 3805	CERAMIC 1000P K 50V	C4113	403 164 0204	CERAMIC 0.1U Z 25V
C332	403 164 0204	CERAMIC 0.1U Z 25V	C4114	403 155 1302	CERAMIC 150P J 50V
C3321	403 164 0204	CERAMIC 0.1U Z 25V	C4121	403 157 3601	CERAMIC 100P J 50V
C333	403 113 3805	CERAMIC 1000P K 50V	C4122	403 162 4709	ELECT 10U M 16V
C3331	403 164 0204	CERAMIC 0.1U Z 25V		403 335 0309	ELECT 10U M 16V
C334	403 164 0204	CERAMIC 0.1U Z 25V	C4123	403 164 0204	CERAMIC 0.1U Z 25V
C3341	403 164 0204	CERAMIC 0.1U Z 25V	C4124	403 157 3601	CERAMIC 100P J 50V
C335	403 113 3805	CERAMIC 1000P K 50V	C4131	403 164 0204	CERAMIC 0.1U Z 25V
C3351	403 164 0204	CERAMIC 0.1U Z 25V	C4133	403 164 0204	CERAMIC 0.1U Z 25V
C3352	403 322 7809	ELECT 220U M 6.3V	C4134	403 164 0204	CERAMIC 0.1U Z 25V
C336	403 164 0204	CERAMIC 0.1U Z 25V	C4135	403 323 1301	CERAMIC 0.47U Z 10V
C3371	403 164 0204	CERAMIC 0.1U Z 25V	C4137	403 175 4109	ELECT 22U M 16V
C341	403 322 7809	ELECT 220U M 6.3V		403 335 0507	ELECT 22U M 16V
C351	403 164 0204	CERAMIC 0.1U Z 25V	C4141	403 172 6106	CERAMIC 270P J 50V
C352	403 280 0508	ELECT 470U M 4V	C4142	403 175 4802	NP-ELECT 10U M 10V
C353	403 164 0204	CERAMIC 0.1U Z 25V	C4143	403 162 6208	ELECT 1U M 50V
C354	403 164 0204	CERAMIC 0.1U Z 25V	C4144	403 215 0900	CERAMIC 390P J 50V
C355	403 113 3805	CERAMIC 1000P K 50V	C4146	403 164 0204	CERAMIC 0.1U Z 25V
C356	403 164 0204	CERAMIC 0.1U Z 25V	C4147	403 157 3601	CERAMIC 100P J 50V
C357	403 113 3805	CERAMIC 1000P K 50V	C4148	403 157 6701	CERAMIC 560P K 50V
C358	403 175 0606	ELECT 100U M 6.3V	C4149	403 157 2901	CERAMIC 47P J 50V
C359	403 164 0204	CERAMIC 0.1U Z 25V	C4150	403 215 1006	CERAMIC 470P J 50V
C360	403 175 0606	ELECT 100U M 6.3V	C4151	403 175 4505	ELECT 47U M 6.3V
C361	403 164 0204	CERAMIC 0.1U Z 25V	C4152	403 162 4709	ELECT 10U M 16V
C362	403 113 3805	CERAMIC 1000P K 50V		403 335 0309	ELECT 10U M 16V
C363	403 113 3805	CERAMIC 1000P K 50V	C4154	403 157 3106	CERAMIC 56P J 50V
C364	403 164 0204	CERAMIC 0.1U Z 25V	C4155	403 164 0204	CERAMIC 0.1U Z 25V
C365	403 164 0204	CERAMIC 0.1U Z 25V	C4161	403 283 6309	CERAMIC 1U Z 10V
C366	403 139 7306	CERAMIC 18P J 50V		403 336 5600	CERAMIC 1U Z 10V
C371	403 164 0204	CERAMIC 0.1U Z 25V	C4201	403 322 7809	ELECT 220U M 6.3V
C372	403 113 3805	CERAMIC 1000P K 50V	C4202	403 164 0204	CERAMIC 0.1U Z 25V
C373	403 113 3805	CERAMIC 1000P K 50V	C4204	403 164 0204	CERAMIC 0.1U Z 25V
C374	403 164 0204	CERAMIC 0.1U Z 25V	C4205	403 164 0204	CERAMIC 0.1U Z 25V
C375	403 113 3805	CERAMIC 1000P K 50V	C4206	403 164 0204	CERAMIC 0.1U Z 25V
C376	403 164 0204	CERAMIC 0.1U Z 25V	C4207	403 164 0204	CERAMIC 0.1U Z 25V
C377	403 113 3805	CERAMIC 1000P K 50V	C4208	403 164 0204	CERAMIC 0.1U Z 25V
C378	403 164 0204	CERAMIC 0.1U Z 25V	C4209	403 164 0204	CERAMIC 0.1U Z 25V
C379	403 164 0204	CERAMIC 0.1U Z 25V	C4211	403 164 0204	CERAMIC 0.1U Z 25V
C381	403 164 0204	CERAMIC 0.1U Z 25V	C4212	403 164 0204	CERAMIC 0.1U Z 25V
C382	403 113 3805	CERAMIC 1000P K 50V	C4213	403 280 0508	ELECT 470U M 4V
C383	403 164 0204	CERAMIC 0.1U Z 25V	C4214	403 164 0204	CERAMIC 0.1U Z 25V
C3835	403 164 0204	CERAMIC 0.1U Z 25V	C4215	403 164 0204	CERAMIC 0.1U Z 25V
C384	403 113 3805	CERAMIC 1000P K 50V	C4216	403 164 0204	CERAMIC 0.1U Z 25V
C385	403 164 0204	CERAMIC 0.1U Z 25V	C4217	403 164 0204	CERAMIC 0.1U Z 25V
C386	403 164 0204	CERAMIC 0.1U Z 25V	C4218	403 164 0204	CERAMIC 0.1U Z 25V
C387	403 113 3805	CERAMIC 1000P K 50V	C4219	403 164 0204	CERAMIC 0.1U Z 25V
C388	403 164 0204	CERAMIC 0.1U Z 25V	C4221	403 164 0204	CERAMIC 0.1U Z 25V
C389	403 113 3805	CERAMIC 1000P K 50V	C4222	403 322 7809	ELECT 220U M 6.3V

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Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C4223	403 164 0204	CERAMIC 0.1U Z 25V		403 335 0408	ELECT 100U M 16V
C4224	403 322 7809	ELECT 220U M 6.3V	C481	403 113 3805	CERAMIC 1000P K 50V
C4231	403 164 0204	CERAMIC 0.1U Z 25V	C482	403 215 0900	CERAMIC 390P J 50V
C4241	403 322 7809	ELECT 220U M 6.3V	C483	403 164 0204	CERAMIC 0.1U Z 25V
C4242	403 164 0204	CERAMIC 0.1U Z 25V	C484	403 164 0204	CERAMIC 0.1U Z 25V
C4243	403 113 3805	CERAMIC 1000P K 50V	C485	403 164 0204	CERAMIC 0.1U Z 25V
C4244	403 322 7809	ELECT 220U M 6.3V	C503	403 164 0204	CERAMIC 0.1U Z 25V
C4245	403 164 0204	CERAMIC 0.1U Z 25V	C504	403 164 0204	CERAMIC 0.1U Z 25V
C4246	403 113 3805	CERAMIC 1000P K 50V	C506	403 229 3508	ELECT 100U M 16V
C4251	403 164 0204	CERAMIC 0.1U Z 25V		403 335 0408	ELECT 100U M 16V
C4252	403 164 0204	CERAMIC 0.1U Z 25V	C507	403 149 9208	CERAMIC 0.01U Z 50V
C4253	403 280 0805	ELECT 330U M 6.3V	C508	403 149 9208	CERAMIC 0.01U Z 50V
C4254	403 164 0204	CERAMIC 0.1U Z 25V	C509	403 229 3508	ELECT 100U M 16V
C4255	403 164 0204	CERAMIC 0.1U Z 25V		403 335 0408	ELECT 100U M 16V
C4256	403 164 0204	CERAMIC 0.1U Z 25V	C511	403 164 0204	CERAMIC 0.1U Z 25V
C4257	403 164 0204	CERAMIC 0.1U Z 25V	C513	403 157 1904	CERAMIC 10P D 50V
C4258	403 164 0204	CERAMIC 0.1U Z 25V	C5301	403 164 0204	CERAMIC 0.1U Z 25V
C4261	403 280 0508	ELECT 470U M 4V	C5302	403 280 0508	ELECT 470U M 4V
C4262	403 164 0204	CERAMIC 0.1U Z 25V	C5303	403 164 0204	CERAMIC 0.1U Z 25V
C4263	403 113 3805	CERAMIC 1000P K 50V	C5304	403 113 3805	CERAMIC 1000P K 50V
C4264	403 164 0204	CERAMIC 0.1U Z 25V	C5305	403 113 3805	CERAMIC 1000P K 50V
C4266	403 164 0204	CERAMIC 0.1U Z 25V	C5306	403 164 0204	CERAMIC 0.1U Z 25V
C4267	403 113 3805	CERAMIC 1000P K 50V	C5307	403 164 0204	CERAMIC 0.1U Z 25V
C4271	403 113 3805	CERAMIC 1000P K 50V	C5308	403 164 0204	CERAMIC 0.1U Z 25V
C4272	403 164 0204	CERAMIC 0.1U Z 25V	C5309	403 113 3805	CERAMIC 1000P K 50V
C4273	403 322 7809	ELECT 220U M 6.3V	C531	403 157 2505	CERAMIC 27P J 50V
C4274	403 164 0204	CERAMIC 0.1U Z 25V	C5310	403 164 0204	CERAMIC 0.1U Z 25V
C4275	403 322 7809	ELECT 220U M 6.3V	C5311	403 113 3805	CERAMIC 1000P K 50V
C431	403 149 9208	CERAMIC 0.01U Z 50V	C5312	403 164 0204	CERAMIC 0.1U Z 25V
C432	403 149 9208	CERAMIC 0.01U Z 50V	C5321	403 164 0204	CERAMIC 0.1U Z 25V
C433	403 149 9208	CERAMIC 0.01U Z 50V	C5322	403 280 0508	ELECT 470U M 4V
C434	403 149 9208	CERAMIC 0.01U Z 50V	C5323	403 164 0204	CERAMIC 0.1U Z 25V
C435	403 149 9208	CERAMIC 0.01U Z 50V	C5324	403 113 3805	CERAMIC 1000P K 50V
C436	403 149 9208	CERAMIC 0.01U Z 50V	C5325	403 164 0204	CERAMIC 0.1U Z 25V
C437	403 164 0204	CERAMIC 0.1U Z 25V	C5326	403 113 3805	CERAMIC 1000P K 50V
C441	403 229 3508	ELECT 100U M 16V	C5327	403 164 0204	CERAMIC 0.1U Z 25V
	403 335 0408	ELECT 100U M 16V	C5328	403 164 0204	CERAMIC 0.1U Z 25V
C442	403 283 6309	CERAMIC 1U Z 10V	C5329	403 164 0204	CERAMIC 0.1U Z 25V
	403 336 5600	CERAMIC 1U Z 10V	C533	403 164 0204	CERAMIC 0.1U Z 25V
C443	403 322 7809	ELECT 220U M 6.3V	C5330	403 113 3805	CERAMIC 1000P K 50V
C444	403 164 0204	CERAMIC 0.1U Z 25V	C5331	403 164 0204	CERAMIC 0.1U Z 25V
C445	403 283 6309	CERAMIC 1U Z 10V	C5332	403 113 3805	CERAMIC 1000P K 50V
	403 336 5600	CERAMIC 1U Z 10V	C5333	403 164 0204	CERAMIC 0.1U Z 25V
C446	403 322 7809	ELECT 220U M 6.3V	C534	403 164 0204	CERAMIC 0.1U Z 25V
C447	403 164 0204	CERAMIC 0.1U Z 25V	C5341	403 164 0204	CERAMIC 0.1U Z 25V
C448	403 229 3508	ELECT 100U M 16V	C5342	403 280 0508	ELECT 470U M 4V
	403 335 0408	ELECT 100U M 16V	C5343	403 164 0204	CERAMIC 0.1U Z 25V
C451	403 164 0204	CERAMIC 0.1U Z 25V	C5344	403 113 3805	CERAMIC 1000P K 50V
C452	403 322 7809	ELECT 220U M 6.3V	C5345	403 164 0204	CERAMIC 0.1U Z 25V
C453	403 164 0204	CERAMIC 0.1U Z 25V	C5346	403 113 3805	CERAMIC 1000P K 50V
C454	403 322 7809	ELECT 220U M 6.3V	C5347	403 164 0204	CERAMIC 0.1U Z 25V
C456	403 164 0204	CERAMIC 0.1U Z 25V	C5348	403 164 0204	CERAMIC 0.1U Z 25V
C457	403 149 9208	CERAMIC 0.01U Z 50V	C5349	403 164 0204	CERAMIC 0.1U Z 25V
C458	403 149 9208	CERAMIC 0.01U Z 50V	C5350	403 113 3805	CERAMIC 1000P K 50V
C459	403 149 9208	CERAMIC 0.01U Z 50V	C5351	403 164 0204	CERAMIC 0.1U Z 25V
C461	403 164 0204	CERAMIC 0.1U Z 25V	C5352	403 113 3805	CERAMIC 1000P K 50V
C471	403 322 7809	ELECT 220U M 6.3V	C5353	403 164 0204	CERAMIC 0.1U Z 25V
C472	403 164 0204	CERAMIC 0.1U Z 25V	C536	403 229 3508	ELECT 100U M 16V
C473	403 162 4709	ELECT 10U M 16V		403 335 0408	ELECT 100U M 16V
	403 335 0309	ELECT 10U M 16V	C5361	403 164 0204	CERAMIC 0.1U Z 25V
C474	403 164 0204	CERAMIC 0.1U Z 25V	C5362	403 113 3805	CERAMIC 1000P K 50V
C476	403 113 3805	CERAMIC 1000P K 50V	C5363	403 164 0204	CERAMIC 0.1U Z 25V
C477	403 215 0900	CERAMIC 390P J 50V	C5364	403 113 3805	CERAMIC 1000P K 50V
C478	403 113 3805	CERAMIC 1000P K 50V	C5365	403 164 0204	CERAMIC 0.1U Z 25V
C479	403 215 0900	CERAMIC 390P J 50V	C5366	403 113 3805	CERAMIC 1000P K 50V
C480	403 162 4709	ELECT 10U M 16V	C5367	403 164 0204	CERAMIC 0.1U Z 25V
	403 335 0309	ELECT 10U M 16V	C5368	403 113 3805	CERAMIC 1000P K 50V
C4801	403 280 0508	ELECT 470U M 4V	C5369	403 164 0204	CERAMIC 0.1U Z 25V
C4802	403 164 0204	CERAMIC 0.1U Z 25V	C537	403 149 9208	CERAMIC 0.01U Z 50V
C4803	403 164 0204	CERAMIC 0.1U Z 25V	C5370	403 164 0204	CERAMIC 0.1U Z 25V
C4805	403 317 4509	ELECT 100U M 6.3V	C538	403 149 9208	CERAMIC 0.01U Z 50V
	403 342 4307	ELECT 100U M 6.3V	C5381	403 175 0606	ELECT 100U M 6.3V
C4806	403 164 0204	CERAMIC 0.1U Z 25V	C5382	403 164 0204	CERAMIC 0.1U Z 25V
C4808	403 229 3508	ELECT 100U M 16V	C5383	403 175 0606	ELECT 100U M 6.3V
	403 335 0408	ELECT 100U M 16V	C539	403 229 3508	ELECT 100U M 16V
C4809	403 229 3508	ELECT 100U M 16V		403 335 0408	ELECT 100U M 16V

# **Electrical Parts List**

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
C541	403 164 0204	CERAMIC 0.1U Z 25V	RB3202	645 027 1519	R-NETWORK 0X4 1/16W
C543	403 157 1904	CERAMIC 10P D 50V	RB3203	645 027 1519	R-NETWORK 0X4 1/16W
C5501	403 305 9905	CERAMIC 680P J 25V	RB3204	645 027 1519	R-NETWORK 0X4 1/16W
C5502	403 304 3300	ELECT 47U M 16V	RB3206	645 027 1519	R-NETWORK 0X4 1/16W
C5503	403 229 3508	ELECT 100U M 16V	RB3207	645 027 1519	R-NETWORK 0X4 1/16W
	403 335 0408	ELECT 100U M 16V	RB3208	645 027 1519	R-NETWORK 0X4 1/16W
C5504	403 149 9208	CERAMIC 0.01U Z 50V	RB3209	645 027 1519	R-NETWORK 0X4 1/16W
C5506	403 229 3508	ELECT 100U M 16V	RB3211	645 027 1519	R-NETWORK 0X4 1/16W
	403 335 0408	ELECT 100U M 16V	RB3212	645 027 1519	R-NETWORK 0X4 1/16W
C5507	403 149 9208	CERAMIC 0.01U Z 50V	RB4801	645 028 3215	R-NETWORK 100X4 1/16W
C5531	403 305 9905	CERAMIC 680P J 25V	RB501	645 028 5981	R-NETWORK 10X4 1/16W
C5532	403 304 3300	ELECT 47U M 16V		645 028 5998	R-NETWORK 10X4 1/16W
C561	403 157 1706	CERAMIC 8P D 50V	RB502	645 028 5981	R-NETWORK 10X4 1/16W
C563	403 164 0204	CERAMIC 0.1U Z 25V		645 028 5998	R-NETWORK 10X4 1/16W
C564	403 164 0204	CERAMIC 0.1U Z 25V	RB503	645 028 5981	R-NETWORK 10X4 1/16W
C566	403 229 3508	ELECT 100U M 16V		645 028 5998	R-NETWORK 10X4 1/16W
	403 335 0408	ELECT 100U M 16V	RB531	645 028 5981	R-NETWORK 10X4 1/16W
C567	403 149 9208	CERAMIC 0.01U Z 50V		645 028 5998	R-NETWORK 10X4 1/16W
C568	403 149 9208	CERAMIC 0.01U Z 50V	RB532	645 028 5981	R-NETWORK 10X4 1/16W
C569	403 229 3508	ELECT 100U M 16V		645 028 5998	R-NETWORK 10X4 1/16W
	403 335 0408	ELECT 100U M 16V	RB533	645 028 5981	R-NETWORK 10X4 1/16W
C571	403 164 0204	CERAMIC 0.1U Z 25V		645 028 5998	R-NETWORK 10X4 1/16W
C573	403 157 1904	CERAMIC 10P D 50V	RB5361	645 031 4070	R-NETWORK 3.3KX4 1/16W
C581	403 164 0204	CERAMIC 0.1U Z 25V		645 037 0311	R-NETWORK 3.3KX4 1/16W
C801	403 164 0204	CERAMIC 0.1U Z 25V	RB561	645 028 5981	R-NETWORK 10X4 1/16W
C802	403 164 0204	CERAMIC 0.1U Z 25V		645 028 5998	R-NETWORK 10X4 1/16W
C803	403 155 1609	CERAMIC 33P J 50V	RB562	645 028 5981	R-NETWORK 10X4 1/16W
C804	403 155 1609	CERAMIC 33P J 50V		645 028 5998	R-NETWORK 10X4 1/16W
C806	403 175 4505	ELECT 47U M 6.3V	RB563	645 028 5981	R-NETWORK 10X4 1/16W
C807	403 164 0204	CERAMIC 0.1U Z 25V		645 028 5998	R-NETWORK 10X4 1/16W
C808	403 215 1006	CERAMIC 470P J 50V	RB801	645 031 4070	R-NETWORK 3.3KX4 1/16W
C809	403 283 6309	CERAMIC 1U Z 10V		645 037 0311	R-NETWORK 3.3KX4 1/16W
	403 336 5600	CERAMIC 1U Z 10V	RB802	645 031 4070	R-NETWORK 3.3KX4 1/16W
C811	403 164 0204	CERAMIC 0.1U Z 25V		645 037 0311	R-NETWORK 3.3KX4 1/16W
C812	403 164 0204	CERAMIC 0.1U Z 25V	RB803	645 031 4070	R-NETWORK 3.3KX4 1/16W
C814	403 280 0805	ELECT 330U M 6.3V		645 037 0311	R-NETWORK 3.3KX4 1/16W
C815	403 164 0204	CERAMIC 0.1U Z 25V	RB804	645 031 4070	R-NETWORK 3.3KX4 1/16W
C816	403 164 0204	CERAMIC 0.1U Z 25V		645 037 0311	R-NETWORK 3.3KX4 1/16W
C817	403 164 0204	CERAMIC 0.1U Z 25V	RB805	645 031 4070	R-NETWORK 3.3KX4 1/16W
C821	403 280 0805	ELECT 330U M 6.3V		645 037 0311	R-NETWORK 3.3KX4 1/16W
C822	403 164 0204	CERAMIC 0.1U Z 25V	RB806	645 031 4070	R-NETWORK 3.3KX4 1/16W
C861	403 280 0805	ELECT 330U M 6.3V		645 037 0311	R-NETWORK 3.3KX4 1/16W
C862	403 164 0204	CERAMIC 0.1U Z 25V	RB807	645 031 4070	R-NETWORK 3.3KX4 1/16W
C871	403 164 0204	CERAMIC 0.1U Z 25V		645 037 0311	R-NETWORK 3.3KX4 1/16W
C872	403 280 0805	ELECT 330U M 6.3V	RB808	645 026 8038	R-NETWORK 22KX4 1/16W
RESISTOR			RB809	645 026 8038	R-NETWORK 22KX4 1/16W
RB1101	645 028 5981	R-NETWORK 10X4 1/16W	R1101	401 105 3406	MT-GLAZE 27K JA 1/16W
	645 028 5998	R-NETWORK 10X4 1/16W	R1102	401 105 2904	MT-GLAZE 22K JA 1/16W
RB1102	645 028 5981	R-NETWORK 10X4 1/16W	R1103	401 105 2805	MT-GLAZE 2.2K JA 1/16W
	645 028 5998	R-NETWORK 10X4 1/16W	R1104	401 105 7503	MT-GLAZE 82K JA 1/16W
RB1103	645 028 5981	R-NETWORK 10X4 1/16W	R1106	401 105 2102	MT-GLAZE 18K JA 1/16W
	645 028 5998	R-NETWORK 10X4 1/16W	R1107	401 105 4601	MT-GLAZE 3.9K JA 1/16W
RB1104	645 028 5981	R-NETWORK 10X4 1/16W	R1108	401 105 7404	MT-GLAZE 8.2K JA 1/16W
	645 028 5998	R-NETWORK 10X4 1/16W	R1109	401 105 0405	MT-GLAZE 100 JA 1/16W
RB1105	645 028 5981	R-NETWORK 10X4 1/16W	R1110	401 105 0405	MT-GLAZE 100 JA 1/16W
	645 028 5998	R-NETWORK 10X4 1/16W	R1111	401 105 0405	MT-GLAZE 100 JA 1/16W
RB1106	645 028 5981	R-NETWORK 10X4 1/16W	R1112	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
	645 028 5998	R-NETWORK 10X4 1/16W	R1113	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
RB1802	645 026 8038	R-NETWORK 22KX4 1/16W	R1114	403 164 0204	CERAMIC 0.1U Z 25V
RB1803	645 028 3215	R-NETWORK 100X4 1/16W	R1115	401 105 5202	MT-GLAZE 470 JA 1/16W
RB1804	645 026 8038	R-NETWORK 22KX4 1/16W	R1116	401 105 5202	MT-GLAZE 470 JA 1/16W
RB1805	645 026 8038	R-NETWORK 22KX4 1/16W	R1117	401 105 0504	MT-GLAZE 1K JA 1/16W
RB1806	645 026 8038	R-NETWORK 22KX4 1/16W	R1118	401 105 0405	MT-GLAZE 100 JA 1/16W
RB1807	645 026 8038	R-NETWORK 22KX4 1/16W	R1119	401 105 0504	MT-GLAZE 1K JA 1/16W
RB1808	645 026 8038	R-NETWORK 22KX4 1/16W	R1120	401 105 8104	MT-GLAZE 56K JA 1/16W
RB1809	645 026 8038	R-NETWORK 22KX4 1/16W	R1121	401 105 0603	MT-GLAZE 10K JA 1/16W
RB1811	645 026 8038	R-NETWORK 22KX4 1/16W	R1123	401 105 0504	MT-GLAZE 1K JA 1/16W
RB1812	645 026 8038	R-NETWORK 22KX4 1/16W	R1124	401 105 0504	MT-GLAZE 1K JA 1/16W
RB1813	645 028 3215	R-NETWORK 100X4 1/16W	R1125	401 105 0504	MT-GLAZE 1K JA 1/16W
RB1814	645 028 3215	R-NETWORK 100X4 1/16W	R1126	401 105 0504	MT-GLAZE 1K JA 1/16W
RB301	645 026 8014	R-NETWORK 10KX4 1/16W	R1127	401 105 0504	MT-GLAZE 1K JA 1/16W
RB302	645 026 8014	R-NETWORK 10KX4 1/16W	R1128	401 105 0504	MT-GLAZE 1K JA 1/16W
RB303	645 026 8014	R-NETWORK 10KX4 1/16W	R1130	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
RB304	645 026 8014	R-NETWORK 10KX4 1/16W	R1131	401 105 0504	MT-GLAZE 1K JA 1/16W
RB305	645 026 8014	R-NETWORK 10KX4 1/16W	R1132	401 105 0504	MT-GLAZE 1K JA 1/16W
RB3201	645 027 1519	R-NETWORK 0X4 1/16W	R1134	401 105 7909	MT-GLAZE 0.000 ZA 1/16W

# 【 Electrical Parts List 】

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R1135	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1254	401 105 0504	MT-GLAZE 1K JA 1/16W
R1136	401 105 0405	MT-GLAZE 100 JA 1/16W	R1255	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1137	401 105 5202	MT-GLAZE 470 JA 1/16W	R1256	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1138	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1257	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1141	401 105 0603	MT-GLAZE 10K JA 1/16W	R1258	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1142	401 105 0603	MT-GLAZE 10K JA 1/16W	R1259	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1143	401 105 0603	MT-GLAZE 10K JA 1/16W	R1300	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1147	401 105 2904	MT-GLAZE 22K JA 1/16W	R1301	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1148	401 105 1600	MT-GLAZE 15K JA 1/16W	R1302	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1151	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1303	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1152	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1305	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1154	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1306	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1156	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1307	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1158	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1308	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1161	401 035 4108	MT-GLAZE 0.000 ZA 1/8W	R1310	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1162	401 035 4108	MT-GLAZE 0.000 ZA 1/8W	R1501	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1165	401 105 3901	MT-GLAZE 33 JA 1/16W	R1502	401 105 0603	MT-GLAZE 10K JA 1/16W
R1166	401 105 3901	MT-GLAZE 33 JA 1/16W	R1503	401 105 0603	MT-GLAZE 10K JA 1/16W
R1167	401 105 3901	MT-GLAZE 33 JA 1/16W	R1504	401 105 0603	MT-GLAZE 10K JA 1/16W
R1169	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1505	401 105 3406	MT-GLAZE 27K JA 1/16W
R1170	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1506	401 105 0603	MT-GLAZE 10K JA 1/16W
R1171	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1507	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1172	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1508	401 105 4007	MT-GLAZE 330 JA 1/16W
R1173	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1531	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1174	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1532	401 105 0603	MT-GLAZE 10K JA 1/16W
R1176	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1533	401 105 0603	MT-GLAZE 10K JA 1/16W
R1178	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1534	401 105 0603	MT-GLAZE 10K JA 1/16W
R1180	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1535	401 105 3406	MT-GLAZE 27K JA 1/16W
R1183	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1536	401 105 0603	MT-GLAZE 10K JA 1/16W
R1184	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1537	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1186	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1538	401 105 4007	MT-GLAZE 330 JA 1/16W
R1187	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1561	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1188	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1562	401 105 0603	MT-GLAZE 10K JA 1/16W
R1189	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1563	401 105 0603	MT-GLAZE 10K JA 1/16W
R1190	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1564	401 105 0603	MT-GLAZE 10K JA 1/16W
R1191	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1565	401 105 3406	MT-GLAZE 27K JA 1/16W
R1193	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1566	401 105 0603	MT-GLAZE 10K JA 1/16W
R1194	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1567	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1196	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1568	401 105 4007	MT-GLAZE 330 JA 1/16W
R1201	401 113 4402	MT-GLAZE 75 JA 1/16W	R1801	401 105 2904	MT-GLAZE 22K JA 1/16W
R1202	401 113 4402	MT-GLAZE 75 JA 1/16W	R1808	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1203	401 105 0504	MT-GLAZE 1K JA 1/16W	R1811	401 105 0405	MT-GLAZE 100 JA 1/16W
R1204	401 105 0900	MT-GLAZE 120 JA 1/16W	R1812	401 105 2904	MT-GLAZE 22K JA 1/16W
R1205	401 105 0900	MT-GLAZE 120 JA 1/16W	R1814	401 105 2904	MT-GLAZE 22K JA 1/16W
R1207	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1815	401 105 2904	MT-GLAZE 22K JA 1/16W
R1208	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1817	401 105 0405	MT-GLAZE 100 JA 1/16W
R1209	401 105 0603	MT-GLAZE 10K JA 1/16W	R1819	401 105 0405	MT-GLAZE 100 JA 1/16W
R1212	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1820	401 105 0405	MT-GLAZE 100 JA 1/16W
R1214	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R1821	401 105 0405	MT-GLAZE 100 JA 1/16W
R1216	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R200	401 105 3901	MT-GLAZE 33 JA 1/16W
R1217	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R201	401 105 2706	MT-GLAZE 220 JA 1/16W
R1218	401 105 0603	MT-GLAZE 10K JA 1/16W	R203	401 105 2706	MT-GLAZE 220 JA 1/16W
R1219	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R205	401 105 2706	MT-GLAZE 220 JA 1/16W
R1221	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R207	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1222	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R208	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1223	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R209	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1224	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R210	401 105 3901	MT-GLAZE 33 JA 1/16W
R1226	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R211	401 105 0504	MT-GLAZE 1K JA 1/16W
R1227	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R212	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R1231	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R213	401 105 0504	MT-GLAZE 1K JA 1/16W
R1232	401 105 0306	MT-GLAZE 10 JA 1/16W	R214	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R1233	401 105 0306	MT-GLAZE 10 JA 1/16W	R215	401 105 0504	MT-GLAZE 1K JA 1/16W
R1234	401 259 1501	MT-GLAZE 2.2 JA 1/3W	R216	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R1236	401 158 4108	MT-GLAZE 4.7 JA 1/16W	R217	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1241	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R218	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1242	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R219	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1243	401 105 0405	MT-GLAZE 100 JA 1/16W	R220	401 105 3901	MT-GLAZE 33 JA 1/16W
R1244	401 105 0405	MT-GLAZE 100 JA 1/16W	R2201	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1245	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2203	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1246	401 105 6605	MT-GLAZE 6.8K JA 1/16W	R2204	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R1247	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R2206	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1248	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R221	401 105 0504	MT-GLAZE 1K JA 1/16W
R1250	401 105 4007	MT-GLAZE 330 JA 1/16W	R222	401 105 0504	MT-GLAZE 1K JA 1/16W
R1251	401 105 0504	MT-GLAZE 1K JA 1/16W	R223	401 105 0504	MT-GLAZE 1K JA 1/16W
R1252	401 105 5400	MT-GLAZE 47K JA 1/16W	R224	401 105 0504	MT-GLAZE 1K JA 1/16W
R1253	401 105 0603	MT-GLAZE 10K JA 1/16W	R225	401 105 0504	MT-GLAZE 1K JA 1/16W



# 【 Electrical Parts List 】

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R226	401 105 0504	MT-GLAZE 1K JA 1/16W	R312	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R227	401 105 0603	MT-GLAZE 10K JA 1/16W	R313	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R228	401 105 0603	MT-GLAZE 10K JA 1/16W	R315	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R229	401 105 0603	MT-GLAZE 10K JA 1/16W	R317	401 105 0603	MT-GLAZE 10K JA 1/16W
R230	403 139 7504	CERAMIC 39P J 50V	R318	401 105 0603	MT-GLAZE 10K JA 1/16W
R231	401 105 3901	MT-GLAZE 33 JA 1/16W	R319	401 105 3208	MT-GLAZE 270 JA 1/16W
R232	401 105 3901	MT-GLAZE 33 JA 1/16W	R320	401 105 4007	MT-GLAZE 330 JA 1/16W
R233	401 105 3901	MT-GLAZE 33 JA 1/16W	R3203	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R234	401 105 3901	MT-GLAZE 33 JA 1/16W	R3204	401 105 0504	MT-GLAZE 1K JA 1/16W
R235	401 105 3901	MT-GLAZE 33 JA 1/16W	R3205	401 105 0504	MT-GLAZE 1K JA 1/16W
R236	401 105 3901	MT-GLAZE 33 JA 1/16W	R3208	401 105 0504	MT-GLAZE 1K JA 1/16W
R240	403 139 7504	CERAMIC 39P J 50V	R3209	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R241	401 105 0504	MT-GLAZE 1K JA 1/16W	R321	401 105 0603	MT-GLAZE 10K JA 1/16W
R242	401 105 0504	MT-GLAZE 1K JA 1/16W	R3211	401 105 0504	MT-GLAZE 1K JA 1/16W
R243	401 105 0504	MT-GLAZE 1K JA 1/16W	R3212	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R244	401 105 0504	MT-GLAZE 1K JA 1/16W	R3214	401 105 0306	MT-GLAZE 10 JA 1/16W
R245	401 105 0504	MT-GLAZE 1K JA 1/16W	R3215	401 105 0306	MT-GLAZE 10 JA 1/16W
R246	401 105 0504	MT-GLAZE 1K JA 1/16W	R3216	401 105 0306	MT-GLAZE 10 JA 1/16W
R247	401 105 0504	MT-GLAZE 1K JA 1/16W	R3217	401 105 0306	MT-GLAZE 10 JA 1/16W
R248	401 105 5202	MT-GLAZE 470 JA 1/16W	R3219	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R250	403 139 7504	CERAMIC 39P J 50V	R322	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2501	401 113 4808	MT-GLAZE 160 JA 1/16W	R3220	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2502	401 113 4808	MT-GLAZE 160 JA 1/16W	R3221	401 105 0603	MT-GLAZE 10K JA 1/16W
R2503	401 105 0504	MT-GLAZE 1K JA 1/16W	R3223	401 105 0504	MT-GLAZE 1K JA 1/16W
R2504	401 105 2805	MT-GLAZE 2.2K JA 1/16W	R3224	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2506	401 158 4108	MT-GLAZE 4.7 JA 1/16W	R3225	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R251	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3227	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R252	401 105 5806	MT-GLAZE 56 JA 1/16W	R3228	401 105 0306	MT-GLAZE 10 JA 1/16W
R253	401 105 7206	MT-GLAZE 82 JA 1/16W	R3229	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R254	401 105 5806	MT-GLAZE 56 JA 1/16W	R323	401 105 0603	MT-GLAZE 10K JA 1/16W
R255	401 105 7206	MT-GLAZE 82 JA 1/16W	R3231	401 105 0306	MT-GLAZE 10 JA 1/16W
R256	401 105 5806	MT-GLAZE 56 JA 1/16W	R3232	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R257	401 105 7206	MT-GLAZE 82 JA 1/16W	R3233	401 105 0306	MT-GLAZE 10 JA 1/16W
R258	401 105 5202	MT-GLAZE 470 JA 1/16W	R3235	401 105 0405	MT-GLAZE 100 JA 1/16W
R259	401 105 5905	MT-GLAZE 560 JA 1/16W	R3236	401 105 0306	MT-GLAZE 10 JA 1/16W
R260	401 105 5202	MT-GLAZE 470 JA 1/16W	R3237	401 105 0306	MT-GLAZE 10 JA 1/16W
R261	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3239	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R262	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3240	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R263	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3244	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R264	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R325	401 105 0603	MT-GLAZE 10K JA 1/16W
R265	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R326	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R266	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R327	401 105 0603	MT-GLAZE 10K JA 1/16W
R267	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R328	401 105 0603	MT-GLAZE 10K JA 1/16W
R268	401 105 0504	MT-GLAZE 1K JA 1/16W	R329	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R269	401 105 5905	MT-GLAZE 560 JA 1/16W	R330	401 105 5905	MT-GLAZE 560 JA 1/16W
R270	401 105 5202	MT-GLAZE 470 JA 1/16W	R3301	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R271	401 105 3901	MT-GLAZE 33 JA 1/16W	R3302	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R272	401 105 3901	MT-GLAZE 33 JA 1/16W	R3304	401 105 0405	MT-GLAZE 100 JA 1/16W
R273	401 105 3901	MT-GLAZE 33 JA 1/16W	R3305	401 105 0405	MT-GLAZE 100 JA 1/16W
R274	401 105 3901	MT-GLAZE 33 JA 1/16W	R3306	401 105 0405	MT-GLAZE 100 JA 1/16W
R275	401 105 3901	MT-GLAZE 33 JA 1/16W	R3307	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R276	401 105 3901	MT-GLAZE 33 JA 1/16W	R3308	401 105 0405	MT-GLAZE 100 JA 1/16W
R277	401 105 5905	MT-GLAZE 560 JA 1/16W	R3309	401 105 0405	MT-GLAZE 100 JA 1/16W
R281	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R331	401 105 2706	MT-GLAZE 220 JA 1/16W
R282	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3310	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R283	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3311	401 105 0405	MT-GLAZE 100 JA 1/16W
R284	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3312	401 105 0405	MT-GLAZE 100 JA 1/16W
R285	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3313	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R286	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3314	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R287	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3315	401 105 0405	MT-GLAZE 100 JA 1/16W
R288	401 105 2706	MT-GLAZE 220 JA 1/16W	R3316	401 105 0405	MT-GLAZE 100 JA 1/16W
R289	401 105 0504	MT-GLAZE 1K JA 1/16W	R3317	401 105 0405	MT-GLAZE 100 JA 1/16W
R291	401 035 4108	MT-GLAZE 0.000 ZA 1/8W	R3318	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R292	401 035 4108	MT-GLAZE 0.000 ZA 1/8W	R3319	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R293	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R332	401 105 4007	MT-GLAZE 330 JA 1/16W
R294	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3320	401 105 0405	MT-GLAZE 100 JA 1/16W
R300	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3321	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R301	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3322	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R302	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3323	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R304	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3324	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R306	401 105 0504	MT-GLAZE 1K JA 1/16W	R3325	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R307	401 105 0504	MT-GLAZE 1K JA 1/16W	R333	401 105 3208	MT-GLAZE 270 JA 1/16W
R308	401 105 0504	MT-GLAZE 1K JA 1/16W	R3331	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R309	401 105 0306	MT-GLAZE 10 JA 1/16W	R3332	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R310	401 105 0504	MT-GLAZE 1K JA 1/16W	R3337	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R311	401 105 0504	MT-GLAZE 1K JA 1/16W	R3338	401 105 7909	MT-GLAZE 0.000 ZA 1/16W



# [ Electrical Parts List ]

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R3339	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R405	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R334	401 105 3208	MT-GLAZE 270 JA 1/16W	R406	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3340	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R407	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3341	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R408	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3342	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4101	401 105 0405	MT-GLAZE 100 JA 1/16W
R335	401 105 4007	MT-GLAZE 330 JA 1/16W	R4102	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R3352	401 105 4007	MT-GLAZE 330 JA 1/16W	R4103	401 105 0603	MT-GLAZE 10K JA 1/16W
R3354	401 105 4007	MT-GLAZE 330 JA 1/16W	R4104	401 113 5805	MT-GLAZE 1.1K JA 1/16W
R3356	401 105 4007	MT-GLAZE 330 JA 1/16W	R4105	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3358	401 105 4007	MT-GLAZE 330 JA 1/16W	R4109	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R336	401 105 3208	MT-GLAZE 270 JA 1/16W	R4111	401 105 0405	MT-GLAZE 100 JA 1/16W
R3360	401 105 4007	MT-GLAZE 330 JA 1/16W	R4112	401 105 2904	MT-GLAZE 22K JA 1/16W
R3362	401 105 4007	MT-GLAZE 330 JA 1/16W	R4113	401 105 0504	MT-GLAZE 1K JA 1/16W
R3363	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4115	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R3364	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4116	401 113 5607	MT-GLAZE 750 JA 1/16W
R3366	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4117	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R3367	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4121	401 105 0405	MT-GLAZE 100 JA 1/16W
R3368	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4122	401 105 1600	MT-GLAZE 15K JA 1/16W
R3369	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4123	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R337	401 105 4007	MT-GLAZE 330 JA 1/16W	R4124	401 105 5202	MT-GLAZE 470 JA 1/16W
R3371	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4127	401 105 0504	MT-GLAZE 1K JA 1/16W
R3372	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4131	401 105 2904	MT-GLAZE 22K JA 1/16W
R3374	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4132	401 105 0603	MT-GLAZE 10K JA 1/16W
R3375	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4133	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3376	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4135	401 113 9506	MT-GLAZE 620K JA 1/16W
R3377	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4136	401 113 9506	MT-GLAZE 620K JA 1/16W
R3378	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4137	401 105 3000	MT-GLAZE 220K JA 1/16W
R3379	401 105 2706	MT-GLAZE 220 JA 1/16W	R4138	401 105 6704	MT-GLAZE 680K JA 1/16W
R3380	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4139	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R3381	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4140	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R339	401 105 0603	MT-GLAZE 10K JA 1/16W	R4141	401 105 0603	MT-GLAZE 10K JA 1/16W
R340	401 105 3208	MT-GLAZE 270 JA 1/16W	R4142	401 105 0504	MT-GLAZE 1K JA 1/16W
R341	401 105 4007	MT-GLAZE 330 JA 1/16W	R4143	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R342	401 105 3208	MT-GLAZE 270 JA 1/16W	R4144	401 105 7305	MT-GLAZE 820 JA 1/16W
R343	401 105 4007	MT-GLAZE 330 JA 1/16W	R4145	401 105 2904	MT-GLAZE 22K JA 1/16W
R344	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4146	401 105 1600	MT-GLAZE 15K JA 1/16W
R346	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4147	401 105 0504	MT-GLAZE 1K JA 1/16W
R348	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4148	401 105 2706	MT-GLAZE 220 JA 1/16W
R349	401 105 4007	MT-GLAZE 330 JA 1/16W	R4149	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R350	401 105 0603	MT-GLAZE 10K JA 1/16W	R4150	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R351	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4151	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R352	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4152	401 105 0504	MT-GLAZE 1K JA 1/16W
R353	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4153	401 105 5202	MT-GLAZE 470 JA 1/16W
R355	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4154	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R356	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4155	401 105 8104	MT-GLAZE 56K JA 1/16W
R357	401 105 0603	MT-GLAZE 10K JA 1/16W	R4156	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R358	401 105 0306	MT-GLAZE 10 JA 1/16W	R4157	401 105 8104	MT-GLAZE 56K JA 1/16W
R359	401 105 0603	MT-GLAZE 10K JA 1/16W	R4158	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R360	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4159	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R361	401 105 0603	MT-GLAZE 10K JA 1/16W	R4160	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R362	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4161	401 105 0603	MT-GLAZE 10K JA 1/16W
R363	401 105 0603	MT-GLAZE 10K JA 1/16W	R4162	401 105 0504	MT-GLAZE 1K JA 1/16W
R366	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4163	401 105 0504	MT-GLAZE 1K JA 1/16W
R367	401 105 0603	MT-GLAZE 10K JA 1/16W	R4165	401 105 8104	MT-GLAZE 56K JA 1/16W
R368	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4166	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R369	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4167	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R371	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4168	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R372	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4169	401 105 4007	MT-GLAZE 330 JA 1/16W
R373	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R417	401 105 4205	MT-GLAZE 33K JA 1/16W
R374	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4170	401 105 0504	MT-GLAZE 1K JA 1/16W
R377	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4171	401 105 0504	MT-GLAZE 1K JA 1/16W
R378	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4172	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R380	401 105 0405	MT-GLAZE 100 JA 1/16W	R4173	401 105 5400	MT-GLAZE 47K JA 1/16W
R381	401 105 0306	MT-GLAZE 10 JA 1/16W	R4174	401 105 3000	MT-GLAZE 220K JA 1/16W
R382	401 105 0306	MT-GLAZE 10 JA 1/16W	R4175	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R387	401 105 0306	MT-GLAZE 10 JA 1/16W	R4176	401 105 0603	MT-GLAZE 10K JA 1/16W
R391	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4177	401 105 0603	MT-GLAZE 10K JA 1/16W
R392	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4178	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R393	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4179	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R394	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R418	401 105 0702	MT-GLAZE 100K JA 1/16W
R395	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4180	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R396	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4181	401 105 2409	MT-GLAZE 2K JA 1/16W
R401	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4182	401 105 0504	MT-GLAZE 1K JA 1/16W
R402	401 105 0405	MT-GLAZE 100 JA 1/16W	R4183	401 105 8104	MT-GLAZE 56K JA 1/16W
R403	401 105 0405	MT-GLAZE 100 JA 1/16W	R4184	401 105 0603	MT-GLAZE 10K JA 1/16W
R404	401 105 0405	MT-GLAZE 100 JA 1/16W	R4186	401 105 7909	MT-GLAZE 0.000 ZA 1/16W

# **Electrical Parts List**

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R4187	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4283	401 105 0306	MT-GLAZE 10 JA 1/16W
R4188	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4284	401 105 0306	MT-GLAZE 10 JA 1/16W
R419	401 105 4205	MT-GLAZE 33K JA 1/16W	R4285	401 105 0306	MT-GLAZE 10 JA 1/16W
R4191	401 113 6901	MT-GLAZE 13K JA 1/16W	R4286	401 105 0603	MT-GLAZE 10K JA 1/16W
R4192	401 105 0603	MT-GLAZE 10K JA 1/16W	R4287	401 105 0603	MT-GLAZE 10K JA 1/16W
R4194	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4288	401 105 0504	MT-GLAZE 1K JA 1/16W
R4201	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4289	401 105 0306	MT-GLAZE 10 JA 1/16W
R4203	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R429	401 113 6802	MT-GLAZE 11K JA 1/16W
R4207	401 105 0405	MT-GLAZE 100 JA 1/16W	R4290	401 105 0603	MT-GLAZE 10K JA 1/16W
R4208	401 105 0405	MT-GLAZE 100 JA 1/16W	R4291	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R421	401 105 0702	MT-GLAZE 100K JA 1/16W	R4292	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4211	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4293	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4213	401 105 0405	MT-GLAZE 100 JA 1/16W	R4294	401 105 0603	MT-GLAZE 10K JA 1/16W
R4214	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4295	401 105 0306	MT-GLAZE 10 JA 1/16W
R4217	401 105 0405	MT-GLAZE 100 JA 1/16W	R4296	401 105 0603	MT-GLAZE 10K JA 1/16W
R4219	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4297	401 105 0504	MT-GLAZE 1K JA 1/16W
R422	401 105 4205	MT-GLAZE 33K JA 1/16W	R4298	401 105 0405	MT-GLAZE 100 JA 1/16W
R4220	401 105 0405	MT-GLAZE 100 JA 1/16W	R431	401 105 0603	MT-GLAZE 10K JA 1/16W
R4221	401 105 0405	MT-GLAZE 100 JA 1/16W	R432	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4222	401 105 0306	MT-GLAZE 10 JA 1/16W	R433	401 105 0603	MT-GLAZE 10K JA 1/16W
R4223	401 105 0306	MT-GLAZE 10 JA 1/16W	R434	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R4224	401 105 0306	MT-GLAZE 10 JA 1/16W	R435	401 105 0603	MT-GLAZE 10K JA 1/16W
R4225	401 105 0306	MT-GLAZE 10 JA 1/16W	R438	401 105 0405	MT-GLAZE 100 JA 1/16W
R4226	401 105 0306	MT-GLAZE 10 JA 1/16W	R439	401 105 0405	MT-GLAZE 100 JA 1/16W
R4227	401 105 0306	MT-GLAZE 10 JA 1/16W	R4401	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4228	401 105 0306	MT-GLAZE 10 JA 1/16W	R4402	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4229	401 105 0306	MT-GLAZE 10 JA 1/16W	R4404	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R423	401 105 0702	MT-GLAZE 100K JA 1/16W	R4405	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4230	401 105 0306	MT-GLAZE 10 JA 1/16W	R4406	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4231	401 105 0306	MT-GLAZE 10 JA 1/16W	R4407	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4232	401 105 0306	MT-GLAZE 10 JA 1/16W	R4409	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4233	401 105 0306	MT-GLAZE 10 JA 1/16W	R441	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4234	401 105 0306	MT-GLAZE 10 JA 1/16W	R4410	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4235	401 105 0306	MT-GLAZE 10 JA 1/16W	R4411	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4236	401 105 0306	MT-GLAZE 10 JA 1/16W	R443	401 105 0603	MT-GLAZE 10K JA 1/16W
R4237	401 105 0306	MT-GLAZE 10 JA 1/16W	R444	401 105 0603	MT-GLAZE 10K JA 1/16W
R4238	401 105 0405	MT-GLAZE 100 JA 1/16W	R445	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R424	401 113 6802	MT-GLAZE 11K JA 1/16W	R451	401 105 4205	MT-GLAZE 33K JA 1/16W
R4240	401 105 0306	MT-GLAZE 10 JA 1/16W	R453	401 105 4205	MT-GLAZE 33K JA 1/16W
R4242	401 105 0405	MT-GLAZE 100 JA 1/16W	R454	401 105 0504	MT-GLAZE 1K JA 1/16W
R4243	401 105 0405	MT-GLAZE 100 JA 1/16W	R457	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4244	401 105 0405	MT-GLAZE 100 JA 1/16W	R458	401 105 0504	MT-GLAZE 1K JA 1/16W
R4246	401 105 0405	MT-GLAZE 100 JA 1/16W	R459	401 212 0305	MT-GLAZE 43K FA 1/16W
R4248	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R461	401 217 4100	MT-GLAZE 22K FA 1/16W
R4249	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R462	401 105 0504	MT-GLAZE 1K JA 1/16W
R4251	401 105 0306	MT-GLAZE 10 JA 1/16W	R463	401 105 0504	MT-GLAZE 1K JA 1/16W
R4252	401 105 0306	MT-GLAZE 10 JA 1/16W	R464	401 105 0504	MT-GLAZE 1K JA 1/16W
R4253	401 105 0306	MT-GLAZE 10 JA 1/16W	R466	401 105 0504	MT-GLAZE 1K JA 1/16W
R4254	401 105 0306	MT-GLAZE 10 JA 1/16W	R467	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4255	401 105 0306	MT-GLAZE 10 JA 1/16W	R468	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4256	401 105 0603	MT-GLAZE 10K JA 1/16W	R471	401 105 0504	MT-GLAZE 1K JA 1/16W
R4257	401 105 0504	MT-GLAZE 1K JA 1/16W	R473	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4258	401 105 0504	MT-GLAZE 1K JA 1/16W	R474	401 105 0603	MT-GLAZE 10K JA 1/16W
R4259	401 105 0306	MT-GLAZE 10 JA 1/16W	R476	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R426	401 105 0603	MT-GLAZE 10K JA 1/16W	R477	401 262 8207	MT-GLAZE 430 FA 1/16W
R4260	401 105 0306	MT-GLAZE 10 JA 1/16W	R478	401 219 0902	MT-GLAZE 1.1K FA 1/16W
R4262	401 105 0603	MT-GLAZE 10K JA 1/16W	R479	401 230 2503	MT-GLAZE 1K FA 1/16W
R4264	401 105 0306	MT-GLAZE 10 JA 1/16W	R4801	401 105 0504	MT-GLAZE 1K JA 1/16W
R4266	401 105 8203	MT-GLAZE 68K JA 1/16W	R4802	401 105 0504	MT-GLAZE 1K JA 1/16W
R4267	401 105 0306	MT-GLAZE 10 JA 1/16W	R4803	401 105 5202	MT-GLAZE 470 JA 1/16W
R4268	401 105 0306	MT-GLAZE 10 JA 1/16W	R4804	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R4269	401 105 0603	MT-GLAZE 10K JA 1/16W	R4805	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R427	401 113 6802	MT-GLAZE 11K JA 1/16W	R4807	401 105 0405	MT-GLAZE 100 JA 1/16W
R4270	401 105 0405	MT-GLAZE 100 JA 1/16W	R4808	401 105 2904	MT-GLAZE 22K JA 1/16W
R4271	401 105 0405	MT-GLAZE 100 JA 1/16W	R4809	401 105 0504	MT-GLAZE 1K JA 1/16W
R4272	401 035 4108	MT-GLAZE 0.000 ZA 1/8W	R481	401 260 4706	MT-GLAZE 1.5K FA 1/16W
R4273	401 035 4108	MT-GLAZE 0.000 ZA 1/8W	R4810	401 105 0405	MT-GLAZE 100 JA 1/16W
R4275	401 105 0603	MT-GLAZE 10K JA 1/16W	R4811	401 105 2904	MT-GLAZE 22K JA 1/16W
R4276	401 105 0504	MT-GLAZE 1K JA 1/16W	R4812	401 105 4502	MT-GLAZE 390 JA 1/16W
R4277	401 105 0306	MT-GLAZE 10 JA 1/16W	R4813	401 105 4502	MT-GLAZE 390 JA 1/16W
R4278	401 105 0306	MT-GLAZE 10 JA 1/16W	R4814	401 105 4502	MT-GLAZE 390 JA 1/16W
R4279	401 105 0306	MT-GLAZE 10 JA 1/16W	R4815	401 105 0405	MT-GLAZE 100 JA 1/16W
R428	401 105 0603	MT-GLAZE 10K JA 1/16W	R4816	401 105 2904	MT-GLAZE 22K JA 1/16W
R4280	401 105 0306	MT-GLAZE 10 JA 1/16W	R482	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4281	401 105 0504	MT-GLAZE 1K JA 1/16W	R4821	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R4282	401 105 0306	MT-GLAZE 10 JA 1/16W	R4824	401 105 0603	MT-GLAZE 10K JA 1/16W

# **Electrical Parts List**

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R4825	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5345	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4826	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5346	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4827	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R535	401 105 3406	MT-GLAZE 27K JA 1/16W
R483	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R536	401 105 1105	MT-GLAZE 12K JA 1/16W
R4831	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R5360	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R4833	401 105 0405	MT-GLAZE 100 JA 1/16W	R5361	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4834	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R5362	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4836	401 105 0405	MT-GLAZE 100 JA 1/16W	R5363	401 105 5905	MT-GLAZE 560 JA 1/16W
R4837	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R5364	401 105 2706	MT-GLAZE 220 JA 1/16W
R4839	401 105 0405	MT-GLAZE 100 JA 1/16W	R5365	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R484	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5366	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R4840	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R5368	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4842	401 105 0405	MT-GLAZE 100 JA 1/16W	R5369	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4843	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R537	401 105 0603	MT-GLAZE 10K JA 1/16W
R4845	401 105 0405	MT-GLAZE 100 JA 1/16W	R5370	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4846	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R5371	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4848	401 105 0405	MT-GLAZE 100 JA 1/16W	R5372	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4849	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R5373	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R485	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R540	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4851	401 105 0405	MT-GLAZE 100 JA 1/16W	R541	401 105 4007	MT-GLAZE 330 JA 1/16W
R4852	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R542	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R4854	401 105 0405	MT-GLAZE 100 JA 1/16W	R543	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4858	401 105 0603	MT-GLAZE 10K JA 1/16W	R544	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4859	401 105 2805	MT-GLAZE 2.2K JA 1/16W	R5502	401 105 0603	MT-GLAZE 10K JA 1/16W
R486	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5503	401 105 0504	MT-GLAZE 1K JA 1/16W
R4860	401 105 2805	MT-GLAZE 2.2K JA 1/16W	R5504	401 105 3802	MT-GLAZE 30K JA 1/16W
R4861	401 105 0405	MT-GLAZE 100 JA 1/16W	R5505	401 105 0603	MT-GLAZE 10K JA 1/16W
R4862	401 105 0405	MT-GLAZE 100 JA 1/16W	R5506	401 105 0603	MT-GLAZE 10K JA 1/16W
R4863	401 105 0405	MT-GLAZE 100 JA 1/16W	R5507	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4864	401 105 0405	MT-GLAZE 100 JA 1/16W	R5508	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R4865	401 105 0405	MT-GLAZE 100 JA 1/16W	R5532	401 105 0603	MT-GLAZE 10K JA 1/16W
R4866	401 105 0405	MT-GLAZE 100 JA 1/16W	R5533	401 105 0504	MT-GLAZE 1K JA 1/16W
R4868	401 105 6001	MT-GLAZE 5.6K JA 1/16W	R5534	401 105 3802	MT-GLAZE 30K JA 1/16W
R4869	401 105 2904	MT-GLAZE 22K JA 1/16W	R5535	401 105 0603	MT-GLAZE 10K JA 1/16W
R487	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5536	401 105 0603	MT-GLAZE 10K JA 1/16W
R4870	401 105 0603	MT-GLAZE 10K JA 1/16W	R5537	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4871	401 105 2904	MT-GLAZE 22K JA 1/16W	R561	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4872	401 105 0603	MT-GLAZE 10K JA 1/16W	R562	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4873	401 105 0405	MT-GLAZE 100 JA 1/16W	R563	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4874	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R564	401 105 0603	MT-GLAZE 10K JA 1/16W
R4877	401 105 4601	MT-GLAZE 3.9K JA 1/16W	R565	401 105 3406	MT-GLAZE 27K JA 1/16W
R4878	401 105 4700	MT-GLAZE 39K JA 1/16W	R566	401 105 1105	MT-GLAZE 12K JA 1/16W
R4879	401 105 8104	MT-GLAZE 56K JA 1/16W	R567	401 105 0603	MT-GLAZE 10K JA 1/16W
R488	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R570	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4880	401 105 0405	MT-GLAZE 100 JA 1/16W	R571	401 105 4007	MT-GLAZE 330 JA 1/16W
R4881	401 105 0405	MT-GLAZE 100 JA 1/16W	R572	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R4882	401 105 0405	MT-GLAZE 100 JA 1/16W	R573	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4883	401 105 0405	MT-GLAZE 100 JA 1/16W	R574	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4884	401 105 0405	MT-GLAZE 100 JA 1/16W	R581	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4885	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R582	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4886	401 258 9904	MT-GLAZE 10 JA 1/3W	R583	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4887	401 105 0603	MT-GLAZE 10K JA 1/16W	R6881	401 105 5202	MT-GLAZE 470 JA 1/16W
R4888	401 247 0509	MT-GLAZE 6.8 JA 1/3W	R6882	401 105 1600	MT-GLAZE 15K JA 1/16W
R4889	401 105 0603	MT-GLAZE 10K JA 1/16W	R6883	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R489	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6884	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R501	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6885	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R502	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6886	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R503	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6887	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R504	401 105 0603	MT-GLAZE 10K JA 1/16W	R6888	401 105 5202	MT-GLAZE 470 JA 1/16W
R505	401 105 3406	MT-GLAZE 27K JA 1/16W	R6889	401 105 0603	MT-GLAZE 10K JA 1/16W
R506	401 105 1105	MT-GLAZE 12K JA 1/16W	R6890	401 105 0603	MT-GLAZE 10K JA 1/16W
R507	401 105 0603	MT-GLAZE 10K JA 1/16W	R6891	401 105 2904	MT-GLAZE 22K JA 1/16W
R510	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6892	401 105 1600	MT-GLAZE 15K JA 1/16W
R511	401 105 4007	MT-GLAZE 330 JA 1/16W	R6893	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R512	401 105 7404	MT-GLAZE 8.2K JA 1/16W	R6894	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R513	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6895	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R514	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6896	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R5302	401 105 5905	MT-GLAZE 560 JA 1/16W	R6897	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R5303	401 105 2706	MT-GLAZE 220 JA 1/16W	R6898	401 105 5202	MT-GLAZE 470 JA 1/16W
R531	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R6899	401 105 0603	MT-GLAZE 10K JA 1/16W
R532	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R801	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R5322	401 105 5905	MT-GLAZE 560 JA 1/16W	R802	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R5323	401 105 2706	MT-GLAZE 220 JA 1/16W	R803	401 105 0405	MT-GLAZE 100 JA 1/16W
R533	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R804	401 105 0405	MT-GLAZE 100 JA 1/16W
R5342	401 105 5905	MT-GLAZE 560 JA 1/16W	R806	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5344	401 105 2706	MT-GLAZE 220 JA 1/16W	R808	401 105 0405	MT-GLAZE 100 JA 1/16W

# **[ Electrical Parts List ]**

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
R809	401 105 0405	MT-GLAZE 100 JA 1/16W	VR452	645 025 7421	VR, SEMI, 10K S
R810	401 105 4106	MT-GLAZE 3.3K JA 1/16W	VR501	645 025 7421	VR, SEMI, 10K S
R811	401 105 4106	MT-GLAZE 3.3K JA 1/16W	VR531	645 025 7421	VR, SEMI, 10K S
R812	401 105 4106	MT-GLAZE 3.3K JA 1/16W	VR561	645 025 7421	VR, SEMI, 10K S
R813	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	COIL		
R815	401 105 4106	MT-GLAZE 3.3K JA 1/16W	L1101	645 001 4512	INDUCTOR, 10U K
R816	401 105 4106	MT-GLAZE 3.3K JA 1/16W	L1102	645 001 4512	INDUCTOR, 10U K
R817	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	L1103	645 001 4512	INDUCTOR, 10U K
R818	401 105 0603	MT-GLAZE 10K JA 1/16W	L1104	645 001 4512	INDUCTOR, 10U K
R820	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	L1106	645 001 4512	INDUCTOR, 10U K
R821	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	L1107	645 001 4512	INDUCTOR, 10U K
R823	401 105 4007	MT-GLAZE 330 JA 1/16W	L1108	645 001 4512	INDUCTOR, 10U K
R824	401 105 5301	MT-GLAZE 4.7K JA 1/16W	L1109	645 001 4512	INDUCTOR, 10U K
R826	401 105 2904	MT-GLAZE 22K JA 1/16W	L1111	645 020 1776	INDUCTOR, 3.3U M
R827	401 105 2904	MT-GLAZE 22K JA 1/16W	L1161	645 020 1776	INDUCTOR, 3.3U M
R831	401 105 0900	MT-GLAZE 120 JA 1/16W	L1162	645 020 1776	INDUCTOR, 3.3U M
R832	401 105 5301	MT-GLAZE 4.7K JA 1/16W	L1201	645 026 1008	INDUCTOR, 3.3U M
R833	401 105 0405	MT-GLAZE 100 JA 1/16W	L1241	645 026 1008	INDUCTOR, 3.3U M
R834	401 105 0603	MT-GLAZE 10K JA 1/16W	L1242	645 026 1008	INDUCTOR, 3.3U M
R835	401 105 0405	MT-GLAZE 100 JA 1/16W	L1501	645 002 5129	INDUCTOR, 0.47U M
R837	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	L1531	645 002 5129	INDUCTOR, 0.47U M
R838	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	L1561	645 002 5129	INDUCTOR, 0.47U M
R839	401 105 0603	MT-GLAZE 10K JA 1/16W	L201	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
			L202	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R843	401 105 2904	MT-GLAZE 22K JA 1/16W	L2201	645 020 1776	INDUCTOR, 3.3U M
R845	401 105 0405	MT-GLAZE 100 JA 1/16W	L2501	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R846	401 105 0504	MT-GLAZE 1K JA 1/16W	L2502	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R847	401 105 0603	MT-GLAZE 10K JA 1/16W	L301	645 020 1776	INDUCTOR, 3.3U M
R848	401 105 2805	MT-GLAZE 2.2K JA 1/16W	L303	645 020 1776	INDUCTOR, 3.3U M
R849	401 105 2904	MT-GLAZE 22K JA 1/16W	L304	645 020 1776	INDUCTOR, 3.3U M
R850	401 105 2904	MT-GLAZE 22K JA 1/16W	L305	645 020 1776	INDUCTOR, 3.3U M
R852	401 105 0603	MT-GLAZE 10K JA 1/16W	L311	645 020 1776	INDUCTOR, 3.3U M
R853	401 105 0405	MT-GLAZE 100 JA 1/16W	L3201	645 020 1776	INDUCTOR, 3.3U M
R855	401 105 0603	MT-GLAZE 10K JA 1/16W	L391	645 020 1776	INDUCTOR, 3.3U M
R856	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	L401	645 020 1776	INDUCTOR, 3.3U M
R858	401 105 0603	MT-GLAZE 10K JA 1/16W	L4201	645 020 1776	INDUCTOR, 3.3U M
R860	401 105 0405	MT-GLAZE 100 JA 1/16W	L4231	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R861	401 105 0603	MT-GLAZE 10K JA 1/16W	L4251	645 026 1008	INDUCTOR, 3.3U M
R862	401 105 2904	MT-GLAZE 22K JA 1/16W	L471	401 038 7601	MT-GLAZE 560 JA 1/10W
R863	401 105 0603	MT-GLAZE 10K JA 1/16W	L472	401 037 5202	MT-GLAZE 100 JA 1/10W
R871	401 105 5301	MT-GLAZE 4.7K JA 1/16W	L473	401 038 7601	MT-GLAZE 560 JA 1/10W
R872	401 105 0405	MT-GLAZE 100 JA 1/16W	L474	401 037 5202	MT-GLAZE 100 JA 1/10W
R873	401 105 5301	MT-GLAZE 4.7K JA 1/16W	L476	401 038 7601	MT-GLAZE 560 JA 1/10W
R874	401 105 0405	MT-GLAZE 100 JA 1/16W	L477	401 037 5202	MT-GLAZE 100 JA 1/10W
R875	401 105 0405	MT-GLAZE 100 JA 1/16W	L481	645 020 1776	INDUCTOR, 3.3U M
R876	401 105 0405	MT-GLAZE 100 JA 1/16W	L501	645 002 5129	INDUCTOR, 0.47U M
R877	401 105 0405	MT-GLAZE 100 JA 1/16W	L502	645 026 1008	INDUCTOR, 3.3U M
R878	401 105 0405	MT-GLAZE 100 JA 1/16W	L531	645 002 5129	INDUCTOR, 0.47U M
R879	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	L532	645 026 1008	INDUCTOR, 3.3U M
R880	401 105 0405	MT-GLAZE 100 JA 1/16W	L5361	645 020 1776	INDUCTOR, 3.3U M
R881	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	L561	645 002 5129	INDUCTOR, 0.47U M
R882	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	L562	645 026 1008	INDUCTOR, 3.3U M
R883	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	DIODE		
R884	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D1101	407 149 0807	DIODE 1SS355-TE-17
R885	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D1102	407 149 0807	DIODE 1SS355-TE-17
R886	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D1103	407 149 0807	DIODE 1SS355-TE-17
R887	401 105 0405	MT-GLAZE 100 JA 1/16W	D1151	407 149 0807	DIODE 1SS355-TE-17
R888	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D1152	407 149 0807	DIODE 1SS355-TE-17
R889	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D1201	407 149 0807	DIODE 1SS355-TE-17
R891	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D1202	407 149 0807	DIODE 1SS355-TE-17
R892	401 105 0405	MT-GLAZE 100 JA 1/16W	D1801	407 187 8209	ZENER DIODE UDZ12B-TE-17
R893	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D1802	407 187 8209	ZENER DIODE UDZ12B-TE-17
R894	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D1803	407 187 8209	ZENER DIODE UDZ12B-TE-17
R895	401 105 0405	MT-GLAZE 100 JA 1/16W	D2201	407 149 0807	DIODE 1SS355-TE-17
R896	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D2501	407 187 8308	ZENER DIODE UDZ13B-TE-17
R898	401 105 0306	MT-GLAZE 10 JA 1/16W	D2502	407 149 0807	DIODE 1SS355-TE-17
R9408	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D3301	407 149 0807	DIODE 1SS355-TE-17
R9428	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D3302	407 149 0807	DIODE 1SS355-TE-17
R9448	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D351	407 149 0807	DIODE 1SS355-TE-17
R9471	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D352	407 149 0807	DIODE 1SS355-TE-17
R9472	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D391	407 149 0807	DIODE 1SS355-TE-17
R9473	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	D4101	407 149 0807	DIODE 1SS355-TE-17
VARIABLE RESISTOR			D4102	407 149 0807	DIODE 1SS355-TE-17
VR2201	645 025 7421	VR, SEMI, 10K S	D4103	407 149 0807	DIODE 1SS355-TE-17
VR281	645 025 7568	VR, SEMI, 5K S	D4104	407 149 0807	DIODE 1SS355-TE-17
VR451	645 025 7421	VR, SEMI, 10K S	D4111	407 149 0807	DIODE 1SS355-TE-17

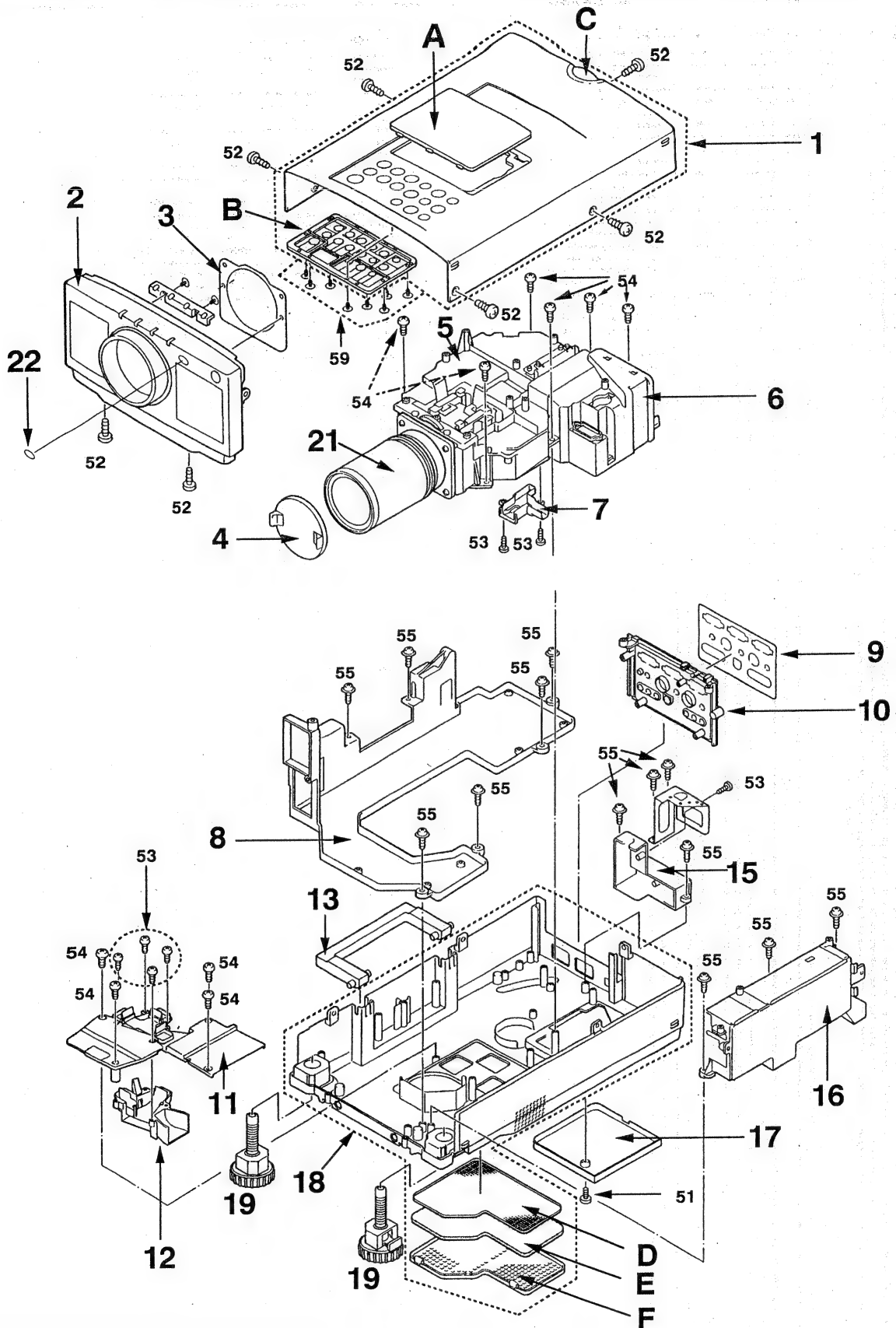


# 【 Electrical Parts List 】

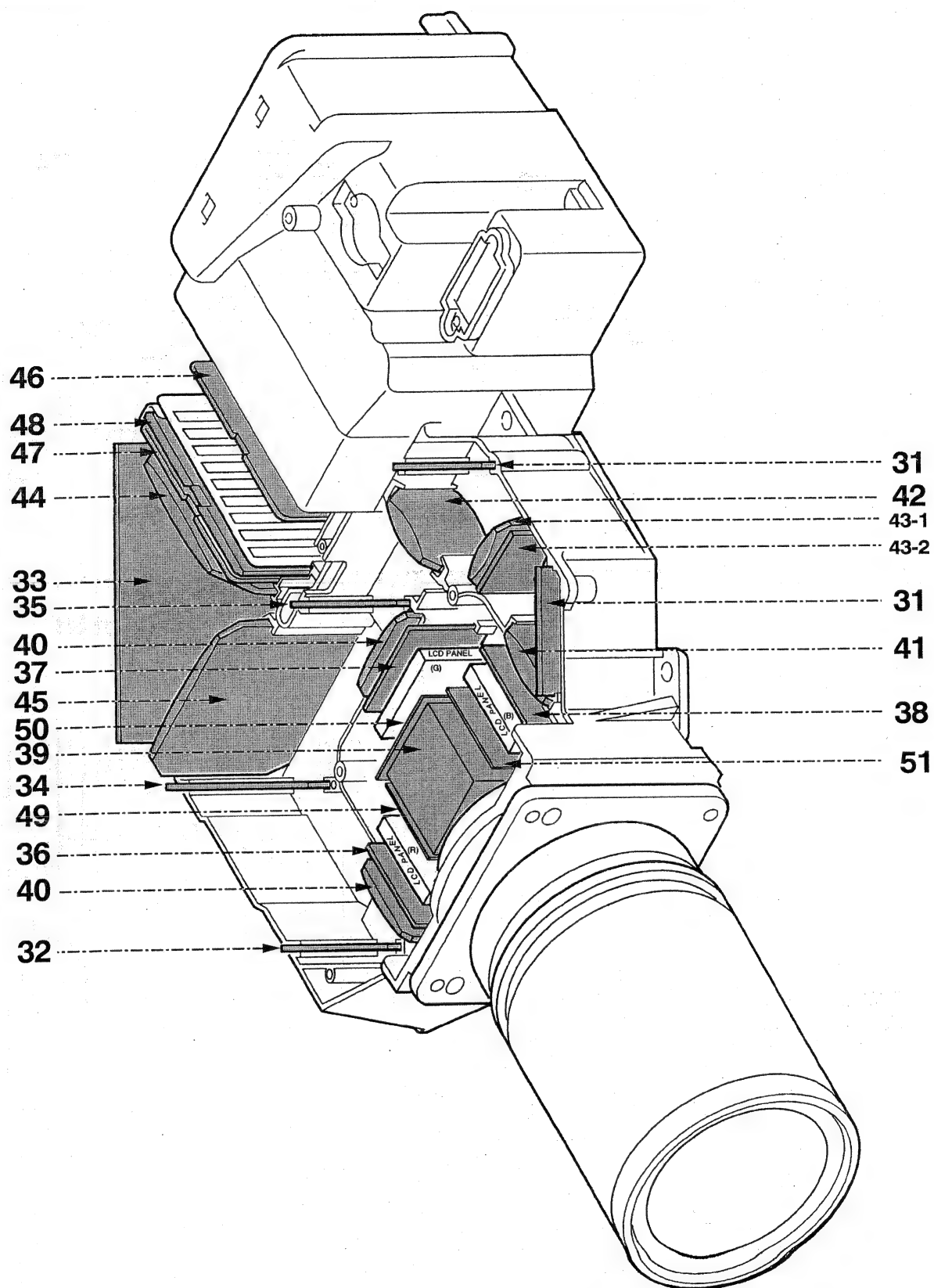
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
D4112	407 149 0807	DIODE 1SS355-TE-17	TP5363	645 036 5010	TERMINAL
D4113	407 149 0807	DIODE 1SS355-TE-17	TP5364	645 036 5010	TERMINAL
D4114	407 149 0807	DIODE 1SS355-TE-17	TP5365	645 036 5010	TERMINAL
D4121	407 149 0807	DIODE 1SS355-TE-17	TP801	645 036 5010	TERMINAL
D4122	407 149 0807	DIODE 1SS355-TE-17	TP814	645 036 5010	TERMINAL
D4142	407 149 0807	DIODE 1SS355-TE-17	TP815	645 036 5010	TERMINAL
D4143	407 149 0807	DIODE 1SS355-TE-17	BGA_1	645 036 5010	TERMINAL
D4144	407 149 0807	DIODE 1SS355-TE-17	BGA_116	645 036 5010	TERMINAL
D4145	407 149 0807	DIODE 1SS355-TE-17	BGA_117	645 036 5010	TERMINAL
D4201	407 149 0807	DIODE 1SS355-TE-17	BGA_2	645 036 5010	TERMINAL
D4202	407 149 0807	DIODE 1SS355-TE-17	BGA_224	645 036 5010	TERMINAL
D4801	407 187 8209	ZENER DIODE UDZ12B-TE-17	BGA_267	645 036 5010	TERMINAL
D4802	407 187 8209	ZENER DIODE UDZ12B-TE-17	K25B	645 027 9690	SOCKET, FPC 32P
D4803	407 187 8209	ZENER DIODE UDZ12B-TE-17	K25G	645 027 9690	SOCKET, FPC 32P
D4804	407 187 8209	ZENER DIODE UDZ12B-TE-17	K25R	645 027 9690	SOCKET, FPC 32P
D4805	407 187 8209	ZENER DIODE UDZ12B-TE-17	K8A	645 025 0330	PLUG, PWB-PWB 54P
D4807	407 179 0501	ZENER DIODE UDZ6.2B-TE-17	K8B	645 025 0330	PLUG, PWB-PWB 54P
D4808	407 179 0501	ZENER DIODE UDZ6.2B-TE-17	K8C	645 020 7211	PLUG, 7P
D4809	407 149 0807	DIODE 1SS355-TE-17	K8D	645 010 0772	PLUG, 8P
D4810	407 149 0807	DIODE 1SS355-TE-17	K8E	645 025 7193	PLUG, 12P
D4811	407 149 0807	DIODE 1SS355-TE-17	K8F	645 020 7204	PLUG, 5P
D4812	407 149 0807	DIODE 1SS355-TE-17	K8G	645 012 2248	PLUG, 4P
D5361	407 149 0807	DIODE 1SS355-TE-17	K8H	645 020 7198	PLUG, 3P
D5362	407 149 0807	DIODE 1SS355-TE-17	K8K	645 020 7228	PLUG, 9P
D5501	407 149 0807	DIODE 1SS355-TE-17	K8L	645 038 1645	PLUG, SIDE-ZR-SM3 12P
D801	407 092 9506	DIODE SB07-03C-TB	K8M	645 025 0330	PLUG, PWB-PWB 54P
D804	407 187 8209	ZENER DIODE UDZ12B-TE-17	K8N	645 025 0330	PLUG, PWB-PWB 54P
MISCELLANEOUS			K8P	645 005 8387	PLUG, 6P
TPENB	645 036 5010	TERMINAL	K8R	645 020 7198	PLUG, 3P
TPRST	645 036 5010	TERMINAL	K8S	645 005 6949	PLUG, SIDE-ZR-SM3 6P
TPVRST	645 036 5010	TERMINAL	K8T	645 005 6970	PLUG, SIDE-ZR-SM3 9P
TP1101B	645 036 5010	TERMINAL	K8U	645 005 8387	PLUG, 6P
TP1101G	645 036 5010	TERMINAL	K8W	645 012 2248	PLUG, 4P
TP1101R	645 036 5010	TERMINAL	K8X	645 020 7198	PLUG, 3P
TP1201	645 036 5010	TERMINAL	K8Y	645 020 7198	PLUG, 3P
TP1202	645 036 5010	TERMINAL	K8Z	645 005 6963	PLUG, SIDE-ZR-SM3 8P
TP1203	645 036 5010	TERMINAL	SW801	645 025 3478	SWITCH, PUSH 1P-2TX1
TP1241	645 036 5010	TERMINAL	SW802	645 025 3478	SWITCH, PUSH 1P-2TX1
TP1242	645 036 5010	TERMINAL	SW803	645 025 3478	SWITCH, PUSH 1P-2TX1
TP201	645 036 5010	TERMINAL	SW804	645 025 3478	SWITCH, PUSH 1P-2TX1
TP202	645 036 5010	TERMINAL	SW805	645 025 3478	SWITCH, PUSH 1P-2TX1
TP203	645 036 5010	TERMINAL	SW806	645 025 3478	SWITCH, PUSH 1P-2TX1
TP2201	645 036 5010	TERMINAL	SW807	645 025 3478	SWITCH, PUSH 1P-2TX1
TP2201B	645 036 5010	TERMINAL	SW808	645 025 3478	SWITCH, PUSH 1P-2TX1
TP2201G	645 036 5010	TERMINAL	SW811	645 025 3478	SWITCH, PUSH 1P-2TX1
TP2201R	645 036 5010	TERMINAL	SW812	645 025 3478	SWITCH, PUSH 1P-2TX1
TP2202	645 036 5010	TERMINAL	SW813	645 025 3478	SWITCH, PUSH 1P-2TX1
TP2203	645 036 5010	TERMINAL	SW814	645 025 3478	SWITCH, PUSH 1P-2TX1
TP2501	645 036 5010	TERMINAL	SW815	645 025 3478	SWITCH, PUSH 1P-2TX1
TP261B	645 036 5010	TERMINAL	SW816	645 025 3478	SWITCH, PUSH 1P-2TX1
TP261G	645 036 5010	TERMINAL	SW817	645 025 3478	SWITCH, PUSH 1P-2TX1
TP261R	645 036 5010	TERMINAL	SW818	645 025 3478	SWITCH, PUSH 1P-2TX1
TP281B	645 036 5010	TERMINAL	X351	645 036 3788	OSC, CRYSTAL, 16.000MHZ
TP281G	645 036 5010	TERMINAL	X801	645 035 2249	OSC, CRYSTAL 6.7584MHZ
TP281R	645 036 5010	TERMINAL			
TP302	645 036 5010	TERMINAL			
TP303	645 036 5010	TERMINAL			
TP306	645 036 5010	TERMINAL			
TP307	645 036 5010	TERMINAL			
TP308	645 036 5010	TERMINAL			
TP309	645 036 5010	TERMINAL			
TP311	645 036 5010	TERMINAL			
TP313	645 036 5010	TERMINAL			
TP4203	645 036 5010	TERMINAL			
TP4205	645 036 5010	TERMINAL			
TP4206	645 036 5010	TERMINAL			
TP4209	645 036 5010	TERMINAL			
TP4801	645 036 5010	TERMINAL			
TP4802	645 036 5010	TERMINAL			
TP501	645 036 5010	TERMINAL			
TP502	645 036 5010	TERMINAL			
TP503	645 036 5010	TERMINAL			
TP511	645 036 5010	TERMINAL			
TP512	645 036 5010	TERMINAL			
TP513	645 036 5010	TERMINAL			
TP5362	645 036 5010	TERMINAL			



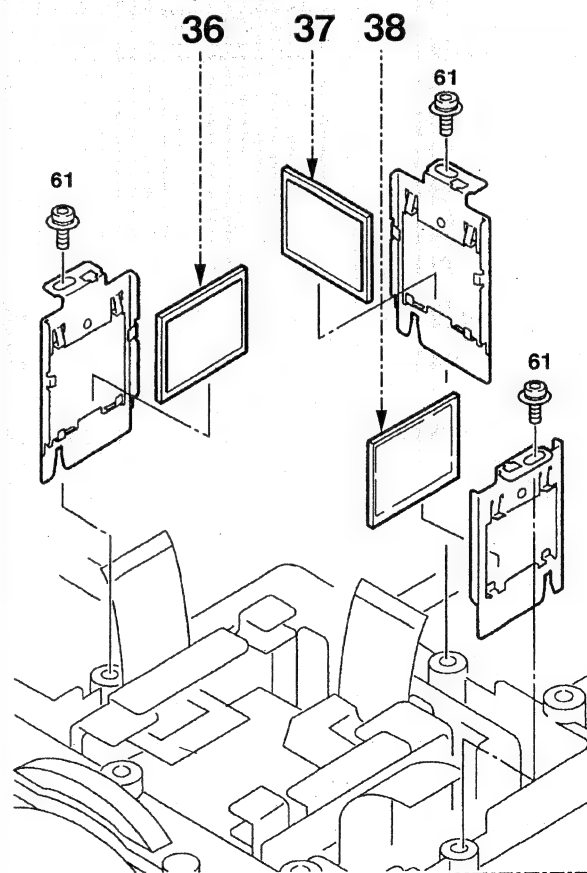
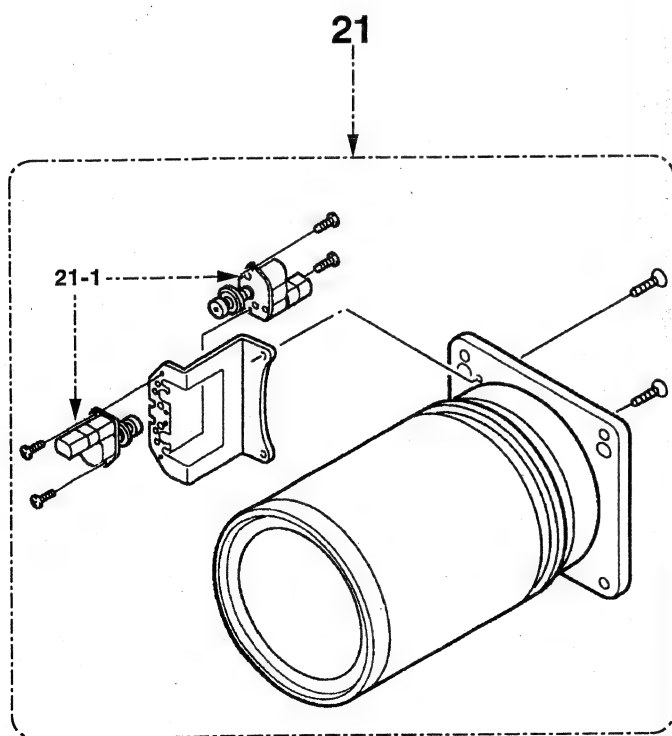
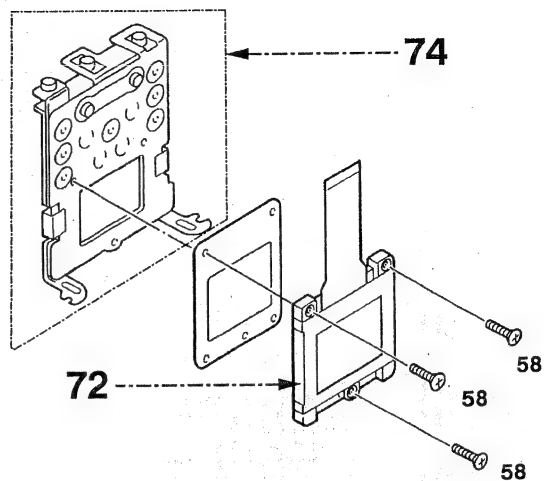
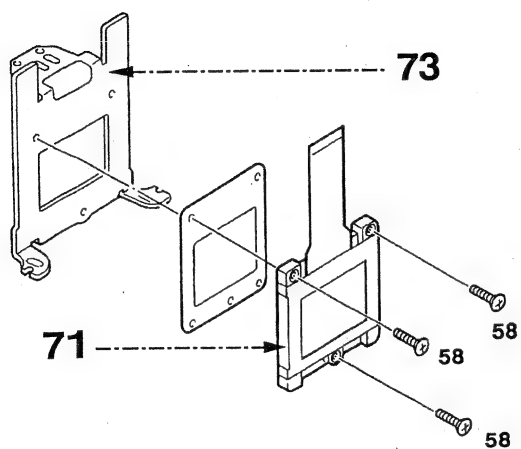
# [ CABINET CHASSIS & OPTICAL PARTS LIST ]



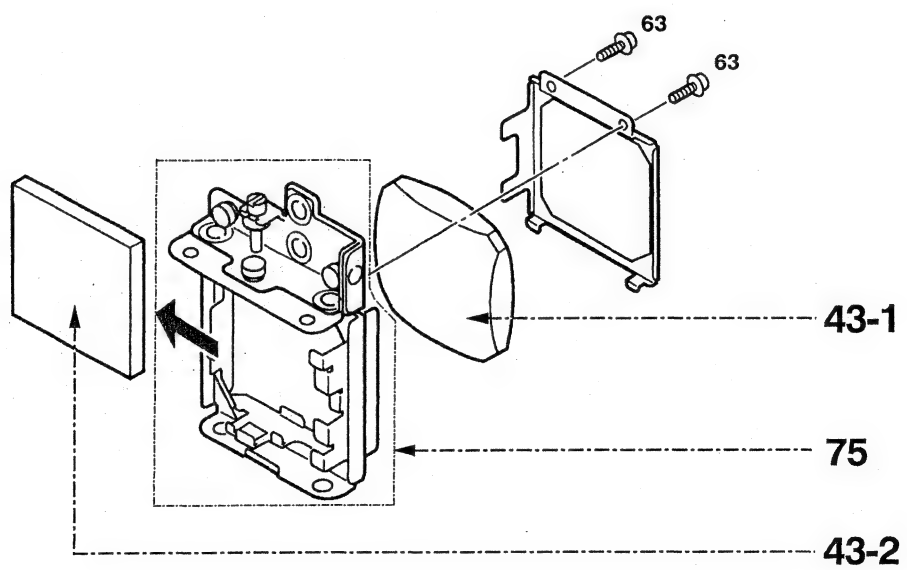
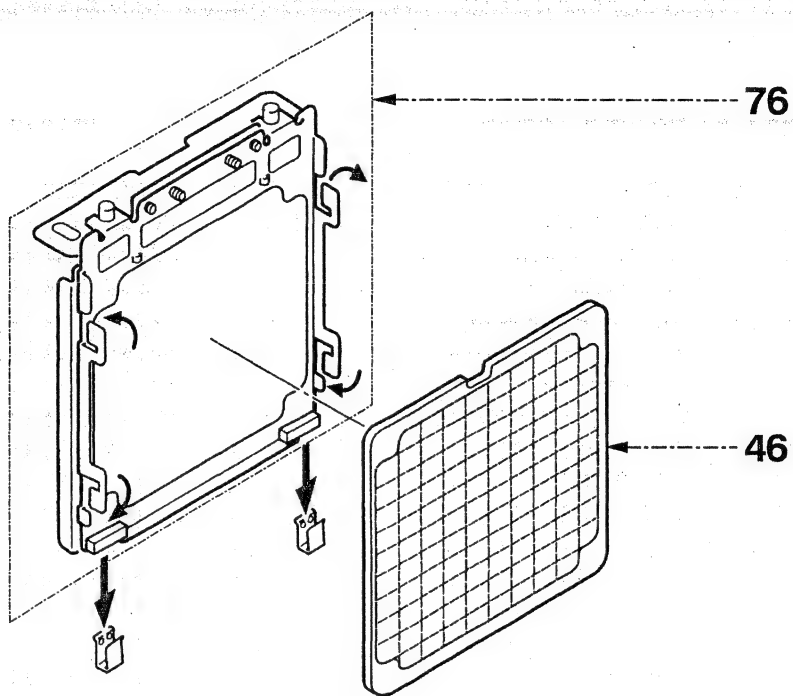
**【 Cabinet, Chassis & Optical parts list 】**



[ CABINET CHASSIS & OPTICAL PARTS LIST ]



[ CABINET CHASSIS & OPTICAL PARTS LIST ]



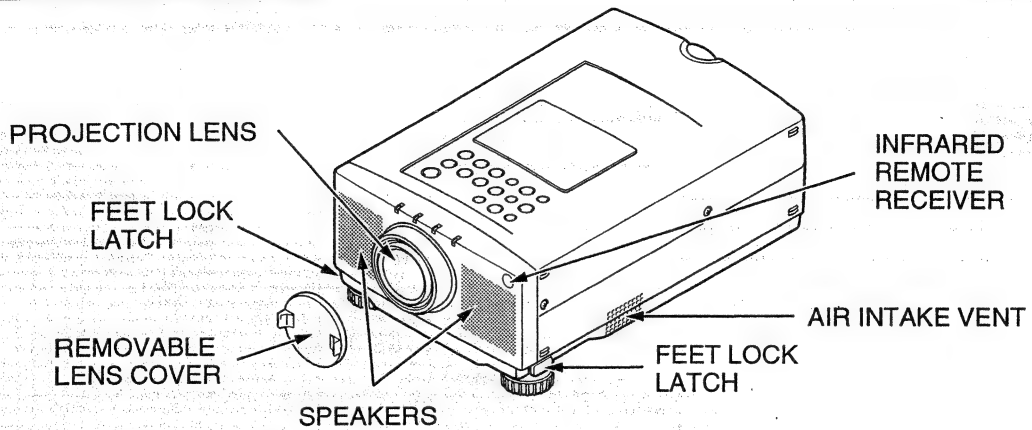
# **[ CABINET CHASSIS & OPTICAL PARTS LIST ]**

KEY. No.	Part No.	Description	KEY. No.	Part No.	Description
<b>CABINET &amp; CHASSIS PARTS</b>			<b>OPTICAL PARTS</b>		
1.	610 283 1900	COMPL. CABINET TOP-MH6A	21.	645 031 8337	ASSY, LENS, PROJECTION
A	610 282 4155	COVER TOP-MF6A	21-1.	645 032 8664	MOTOR, LENS(Z, F) DC 0.2W
B	610 282 3752	ASSY, BUTTON-MF6A	31.	645 035 6346	MIRROR(B)
C	610 276 2693	DEC RC-M6SA	32.	645 032 7216	MIRROR(R)
2.	610 282 3905	ASSY, CABINET FR-MF6A	33.	645 035 6339	MIRROR(W-COLD)
3.	610 282 5688	SPACER LIGHT*LENS-MF6A	34.	645 035 5332	DICHROIC MIRROR (R)
4.	610 277 2203	CAP LENS-M6SAA	or	645 041 1601	DICHROIC MIRROR (R)AST
5.	610 282 4315	OPTICAL BASE TOP-MF6A	35.	645 035 5349	DICHROIC MIRROR (G)
6.	610 282 8078	OPTICAL BASE BTM-MF6A	36.	645 035 9309	POLARIZED GLASS(R-FILTER)
7.	610 279 3536	MOUNTING DUCT INT-M6SAA	37.	645 041 5609	POLARIZED GLASS(IN/G)
8.	610 282 0041	HOLDER POWER PWB-MF6A	38.	645 038 7708	POLARIZED GLASS(IN/B)
9.	610 282 4162	DEC AV SHEET-MF6A	39.	645 038 1836	ASSY, PRISM M6TAA(S)
10.	610 282 4261	PANEL AV-MF6A	40.	645 024 9037	LENS, CONDENSER
11.	610 275 9020	MOUNTING DUCT TOP-M6SA	or	645 032 2822	LENS, CONDENSER
12.	610 275 9037	MOUNTING DUCT BTM-M6SA	41.	645 032 6455	LENS, CONDENSER(B)
13.	610 282 4193	HANDLE-MF6A	42.	645 032 6462	LENS, RELAY(IN)
15.	610 268 2984	HOLDER AC-M6KA	or	645 039 6625	LENS, RELAY(IN)
16.	610 279 7534	HOLDER LAMP PWB-M6SAA	43-1.	645 032 6479	LENS, RELAY(OUT)
17.	610 282 4148	COVER, LAMP-MF6A	or	645 039 6632	LENS, RELAY(OUT)
18.	610 283 2341	COMPL. CABINET BTM-MF6A	43-2.	645 038 7890	OPTICAL FILTER(UV CUT)
D	610 276 1498	SHIELD FAN-M6SA	44.	645 032 6431	LENS, CONDENSER(IN)
E	610 276 1337	FILTER NET-M6SA	45.	645 032 6448	LENS, CONDENSER(OUT)
F	610 282 4254	PANEL FILTER-MF6A	46.	645 031 5640	LENS, INTEGRATOR(IN)
19.	610 276 0675	ASSY, STAND LEG-M6SA	47.	645 035 7015	ASSY, LENS, INT. (OUT)
22.	645 037 1905	BADGE, PHOENIX SANYO*22X10	48.	645 025 0682	PRISM(PBS)
<b>SCREWS</b>			or	645 025 6899	PRISM(PBS)
51.	411 002 1306	SCR BIN 4X8	or	645 026 1060	PRISM(PBS)
52.	411 169 5902	SCR TPG BIN 4X12	49.	NOT USED	
53.	411 025 6500	SCR S-TPG BIN 3X8	50.	NOT USED	
54.	411 147 4408	SCR S-TPG BIN 4X12	51.	NOT USED	
55.	412 018 8402	SCR P-TAP FLG 3X10E	71.	645 041 1441	LCD(LCX023DLT-8 G)
57.	411 033 3003	SCR FLT 2X4	72.	645 041 1434	LCD(LCX023DLT-7 R)
58.	411 052 1806	SCR OVL 2X8	72.	645 041 1458	LCD(LCX023DLT-6 B)
61.	411 174 9407	BOLT HEX-SCT 2.5X6	73.	610 276 3232	MOUNTING PLATE PNL*G-M6SA
62.	411 174 9308	BOLT HEX-SCT+SW+W 2.5X6	74.	610 276 0323	COMPL. HOLDER LCD-M6SA
63.	411 030 7301	SCR BIN 2X6	75.	610 283 1306	COMPL. MOUNTING LENS-MF6A
			76.	610 276 0927	COMPL. MOUNTING INT-M6SA



# NAME OF EACH PART OF THE PROJECTOR

## FRONT OF THE PROJECTOR



## REAR OF THE PROJECTOR

### EXHAUST VENT

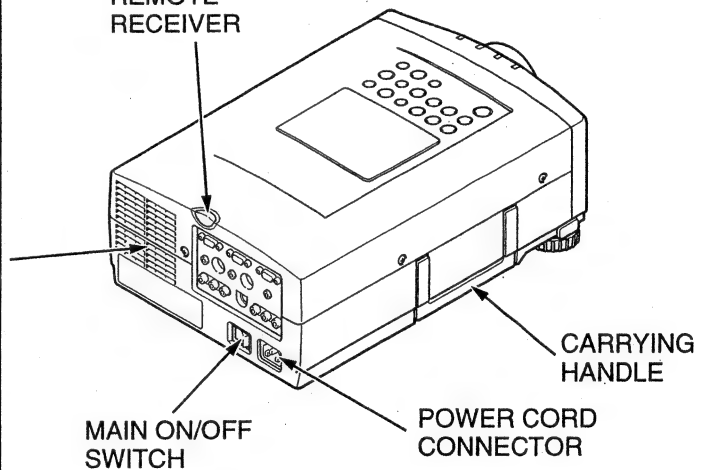


#### CAUTION HOT AIR!

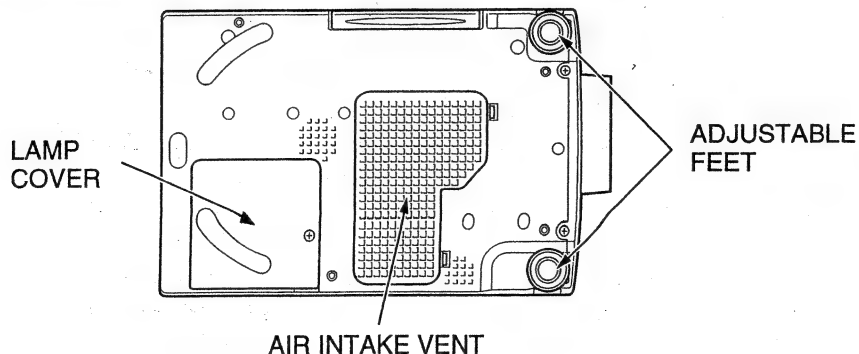
Air blown from the exhaust vent is hot. Observe the following when handling your projector or choosing a location to install it.

- Keep heat-sensitive objects away from the exhaust port.
- If you set the projector on top of a metallic surface, the surface will become hot because of the hot air exhaust. Be careful when handling.
- Do not touch the cabinet near to the exhaust vent area, and especially screws and metallic parts. These parts will become hot while the projector is used.

### INFRARED REMOTE RECEIVER



## BOTTOM OF THE PROJECTOR



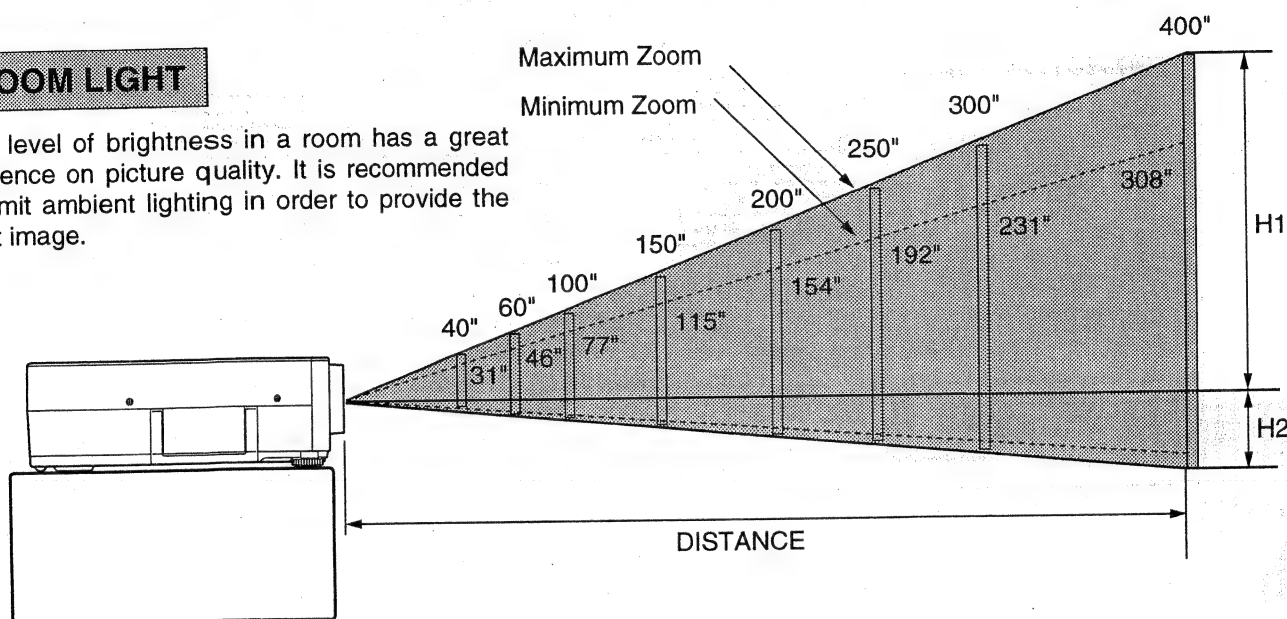
## SETTING-UP THE PROJECTOR

### POSITIONING:

- This projector is basically designed to project on a flat projection surface.
- This projector can be focused from 1.4 m ~ 14.4 m.
- Refer to the figure below as an example when positioning the projector to the screen.

### ROOM LIGHT

The level of brightness in a room has a great influence on picture quality. It is recommended to limit ambient lighting in order to provide the best image.



Screen Size	Max. Zoom	40"	60"	100"	150"	200"	250"	300"	400"
	Min. Zoom	31"	46"	77"	115"	154"	192"	231"	308"
Distance		1.4m	2.2m	3.6m	5.4m	7.2m	9.0m	10.8m	14.4m

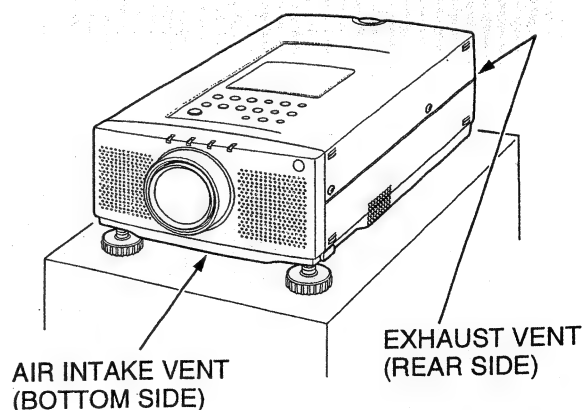
Screen Size (W x H) mm	40"	60"	100"	150"	200"	250"	300"	400"
	813 x 610	1219 x 914	2032 x 1524	3048 x 2286	4064 x 3048	5080 x 3810	6096 x 4572	8128 x 6096
Height (H1)	581 mm	870 mm	1451 mm	2177 mm	2903 mm	3629 mm	4354 mm	5806 mm
Height (H2)	29 mm	44 mm	73 mm	109 mm	145 mm	181 mm	218 mm	290 mm

### VENTILATION

This projector is equipped with cooling fan to protect it from overheating. Pay attention to the following to ensure proper ventilation and avoid a possible risk of fire and malfunction.



- Do not cover the vents with papers or other materials.
- Keep the rear grill at least 1 m away from any object.
- Make sure that there are no objects under the projector. An object under the projector may prevent the projector from taking the cooling air through the bottom vent.



## INSTALLATION

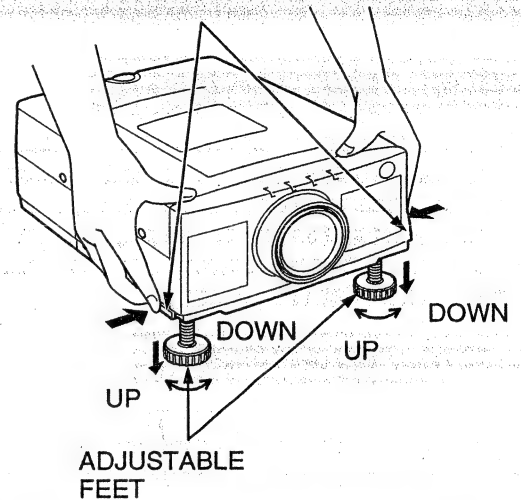
### ADJUSTABLE FEET

Picture tilt and projection angle can be adjusted by rotating the ADJUSTABLE FEET. Projection angle can be adjusted 0 to 6°.

1. Lift the front of the projector and press the FEET LOCK LATCHES on both sides of the projector.
2. Release the FEET LOCK LATCHES to lock the ADJUSTABLE FEET and rotate the ADJUSTABLE FEET to fine tune the position and the tilt.
3. To shorten the ADJUSTABLE FEET, lift the front of the projector and press and undo the FEET LOCK LATCHES.

**NOTE:** The position and the keystone distortion of the image can also be adjusted using the KEYSTONE function.  
(See pages 28, 35 and 45).

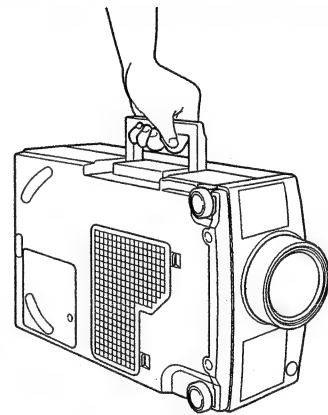
FEET LOCK LATCHES



## MOVING THE PROJECTOR



Use the carrying handle when moving the projector.  
Replace the lens cover and retract the adjustable feet when moving the projector to prevent damage to the projector.



### CAUTION IN CARRYING OR TRANSPORTING THE PROJECTOR

- Do not drop or bump the projector, otherwise damages or malfunctions may result.
- When transporting the projector, use a Sanyo recommended Carrying Case.
- Do not transport the projector by using a courier or transport service in an unsuitable transport case. This may cause damage to the projector. To transport the projector through a courier or transport service, use a Sanyo recommended Case.
- For a carrying or transportation cases, contact a Sanyo authorized dealer.

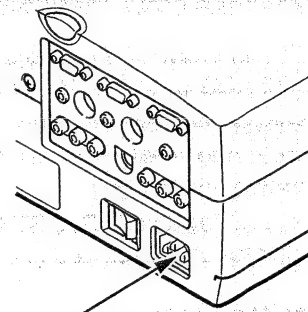
## POWER REQUIREMENTS

### MODEL PLC-XP20E/XP17E

Your projector uses nominal input voltages of 200-240 VAC. The projector automatically selects the correct input voltage. The projector is designed to work with single-phase power systems having a grounded neutral conductor. To reduce the risk of electrical shock, do not plug into any other type of power system. Consult your authorized dealer or service station if you are not sure what type of power is supplied to your building.

### MODEL PLC-XP20/XP17

Your projector uses nominal input voltages of 110-120 VAC. The projector automatically selects the correct input voltage. The projector is designed to work with single-phase power systems having a grounded neutral conductor. To reduce the risk of electrical shock, do not plug into any other type of power system. Consult your authorized dealer or service station if you are not sure what type of power is supplied to your building.

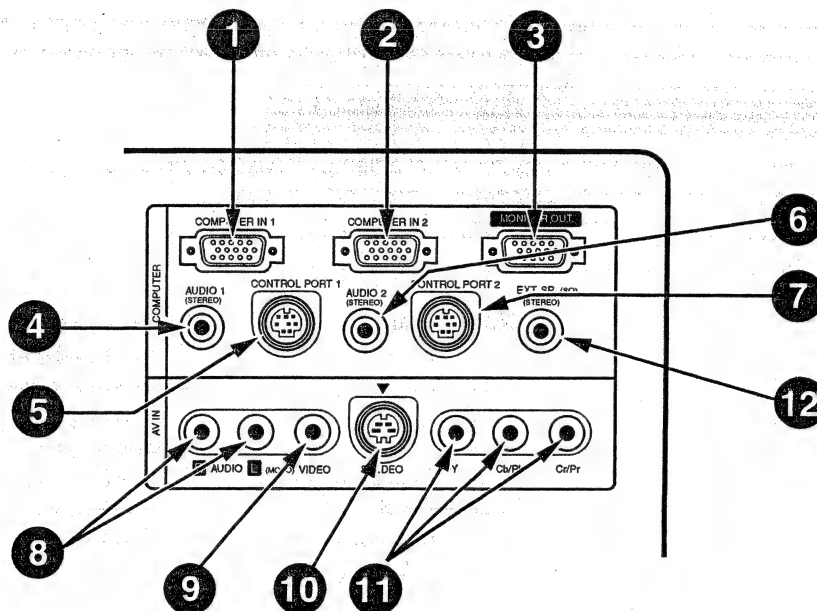


Connect the AC power supply cord (supplied) to the projector. The socket-outlet must be near this equipment and must be easily accessible.

# CONNECTING THE PROJECTOR

## TERMINAL OF THE PROJECTOR

### REAR OF THE PROJECTOR



- 1 COMPUTER INPUT-1 TERMINAL**  
Used to connect a computer to the projector.
- 2 COMPUTER INPUT-2 TERMINAL**  
Used to connect a computer to the projector.
- 3 MONITOR OUTPUT TERMINAL**  
Used to connect a monitor to the projector.
- 4 COMPUTER AUDIO INPUT-1 JACK**  
**mini stereo type**  
Used to connect a computer audio input to the projector.
- 5 CONTROL PORT-1 CONNECTOR**  
Used to connect a mouse cable to the projector.
- 6 COMPUTER AUDIO INPUT-2 JACK**  
**mini stereo type**  
Used to connect a computer audio input to the projector.
- 7 CONTROL PORT-2 CONNECTOR**  
Used to connect a mouse cable to the projector.
- 8 AUDIO INPUT JACKS**  
Used to connect an audio input to the projector.
- 9 VIDEO INPUT JACK**  
Used to connect a video source to the projector.
- 10 S-VIDEO INPUT JACK**  
Used to connect a S-VHS video source to the projector.
- 11 COMPONENT VIDEO INPUT JACKS**  
Used to connect a component video source to the projector.
- 12 EXT. SP. JACK (3.5 mm mini stereo type)**  
Used to connect an external speaker system.

**NOTE:** Control port-2 connector can be also used as serial port (RS-232C).



## CONNECTING THE COMPUTER

### CONNECTING TO THE COMPUTER INPUT TERMINALS (1 and 2)

Personal computers can be connected to the HDB15-pin (VGA) terminal on the projector.

- Connect the computer to these terminals using the VGA cable and VGA/Macintosh adapter (provided).

**CAUTION:** For projectors, the VGA cable provided is designed to reduce RFI (Radio Frequency Interference) emissions. For regulatory compliance reasons, this cable must be used and must not be replaced by any other cable.

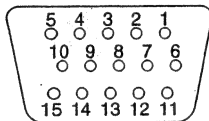
### CONNECTING TO THE MONITOR OUTPUT TERMINAL

This terminal output the information of the selected computer source being viewed on the screen (Computer 1 or Computer 2). When video source is selected, this terminal outputs Computer 1 input information.

An external monitor can be connected to the HDB15-pin (VGA) terminal on the projector.

- Connect the monitor to this terminal using the VGA cable (not provided).

HDB 15-PIN  
TERMINAL



#### Pin No./Signal

- 1 Red input
- 2 Green input
- 3 Blue input
- 4 Sense 2
- 5 Ground (Horiz.sync.)
- 6 Ground (Red)
- 7 Ground (Green)
- 8 Ground (Blue)

#### Pin No./Signal

- 9 Non Connect
- 10 Ground (Vert. sync.)
- 11 Sense 0
- 12 Sense 1
- 13 Horiz. sync
- 14 Vert. sync
- 15 Reserved

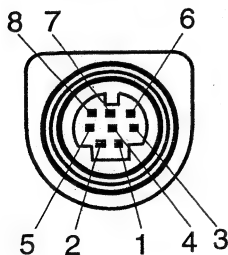
### CONNECTING TO THE COMPUTER AUDIO INPUT JACKS (1 and 2)

- Connect audio outputs from your computer to these jacks using the audio cable (not provided).

### CONNECTING TO THE CONTROL PORT (DIN 8 PIN) CONNECTORS (1 and 2)

- If you wish to control the computer with projector's remote control unit, you must connect control port (PS/2, Serial or ADB port) on your computer to projector's control port with cable. (three type cables supplied; for PS/2 Port, Serial Port and ADB Port).

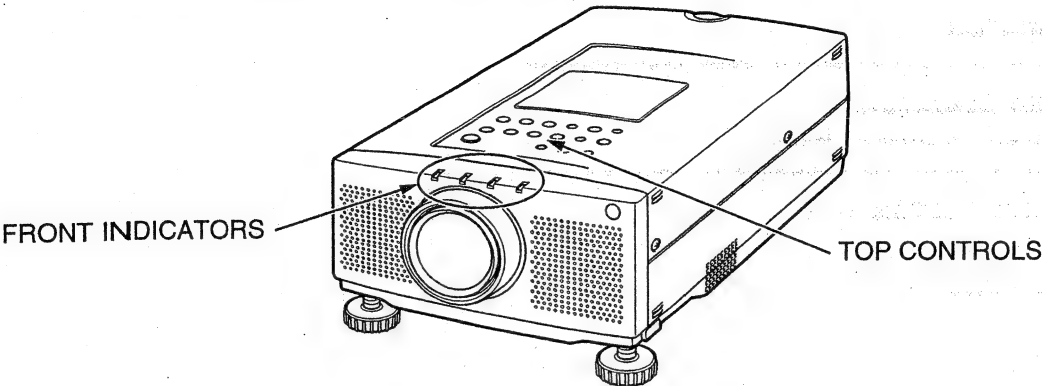
#### ■ CONTROL PORT



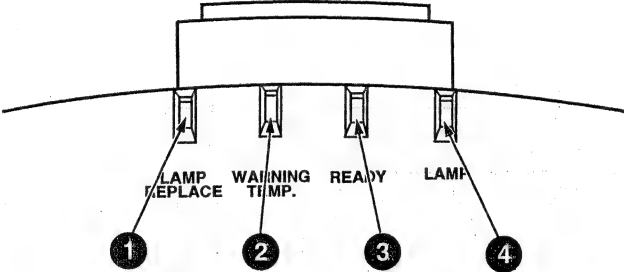
	PS/2 Port	Serial Port	ADB Port
1	_____	RXD	_____
2	CLK	_____	ADB
3	DATA	_____	_____
4	GND	GND	GND
5	_____	RTSCTS	_____
6	_____	TXD	_____
7	GND	GND	_____
8	_____	GND	GND

**NOTE:** The RXD port (1 pin on the Serial Port) is provided on control port 2 connector only. If you control the projector by computer, you must connect control port 2 connector.

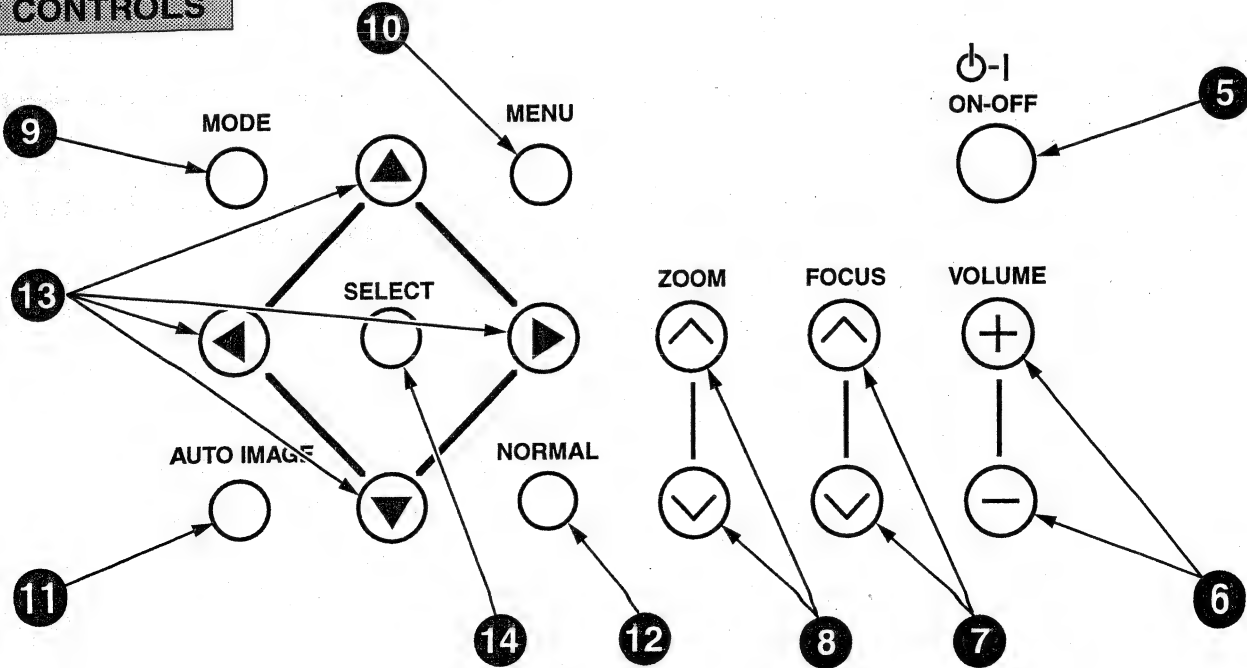
CONTROLS AND INDICATORS



FRONT INDICATORS



TOP CONTROLS



## BEFORE OPERATION

---

- 1 LAMP REPLACEMENT INDICATOR**  
Light is orange when the Lamp life draws to an end.
- 2 TEMPERATURE WARNING INDICATOR**  
Flashes red when internal projector temperature is too high.
- 3 READY INDICATOR**  
Light is green when projector lamp is ready to be turned on.
- 4 LAMP POWER INDICATOR**  
Light is dim when the projector is on.  
Light is brightened when the projector is in stand-by mode.
- 5 POWER ON/OFF BUTTON**  
Used to turn the projector on or off.
- 6 VOLUME BUTTONS**  
Used to adjust volume.
- 7 FOCUS BUTTONS**  
Used to operate power focus system.
- 8 ZOOM BUTTONS**  
Used to operate power zoom lens.
- 9 MODE BUTTON**  
Used to select source.  
(Computer 1, Computer 2 or Video).
- 10 MENU BUTTON**  
This button will activate the MENU operation.  
Use this button, the POINT UP/DOWN/LEFT/RIGHT buttons and the SELECT button to make adjustments to the projector's setting in MENU operation.
- 11 AUTO IMAGE BUTTON**  
Used to operate the AUTO IMAGE function.
- 12 NORMAL BUTTON**  
Use to reset to normal picture adjustment preset by factory.
- 13 POINT UP/DOWN/LEFT/RIGHT BUTTONS**  
To select an item on the MENU that you want to adjust. To select an item, move the arrow by pressing these buttons (UP, DOWN, LEFT or RIGHT).
- 14 SELECT BUTTON**  
This button has different functions depending on when used. This button is used to execute the item selected, to increase or decrease the values in certain items such as CONTRAST or BRIGHTNESS.

## OPERATION OF THE REMOTE CONTROL

This remote control unit is not only able to operate the projector but also usable as a wireless mouse for a PC. One pointing pad and two click buttons are used for wireless mouse operation.

Wireless mouse is usable when PC mouse pointer is displayed on the screen. When the menu or indicator of the projector is displayed on the screen instead of the PC mouse pointer, the wireless mouse cannot be used.

**NOTE:** To use the unit as a PC wireless mouse, connect the projector to the PC with the attached cable. Signals from the projector are transmitted to the PC, enabling the remote control unit of the projector to be used as a PC wireless mouse. (Refer to "CONNECTING THE PROJECTOR" in pages 11 to 15 for the connection).

### LASER POINTER button

This remote control emits a laser beam as the Laser Pointer from the Laser Light Window. When the LASER button is pressed, the laser light goes on. When the button is pressed more than 1 minute or the button is released, light goes off. Laser light is emitted with the RED light which tells the laser beam being emitted. The laser emitted is a class II laser; therefore, do not look into the Laser Light Window or shine the laser beam on yourself or other people. The three marks to the right are the caution labels for the laser beam.

**CAUTION:** Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

INFRARED  
SIGNAL  
WINDOW

LASER LIGHT WINDOW

AVOID EXPOSURE-LASER  
RADIATION IS EMITTED  
FROM THIS APERTURE  
レーザー光の出口  
ビームをのぞき込まないこと

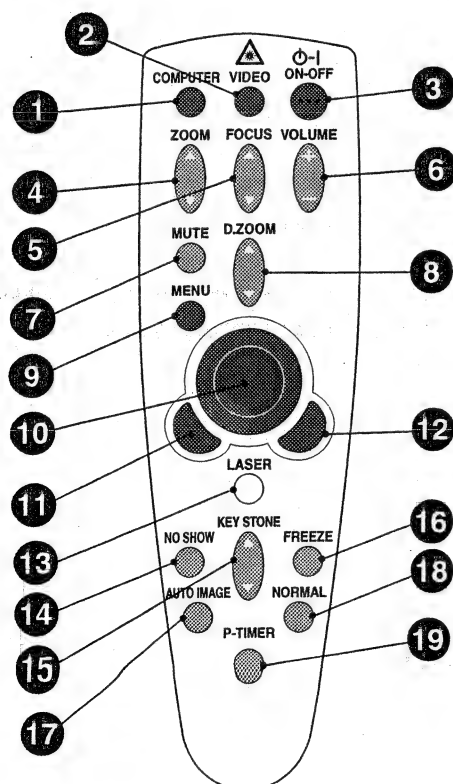
### CAUTION

LASER RADIATION-  
DO NOT STARE INTO BEAM  
MAX OUTPUT : 1mW  
WAVE LENGTH : 650±20nm  
CLASS II LASER PRODUCT

This product is complied with 21 CFR  
part 1040.10

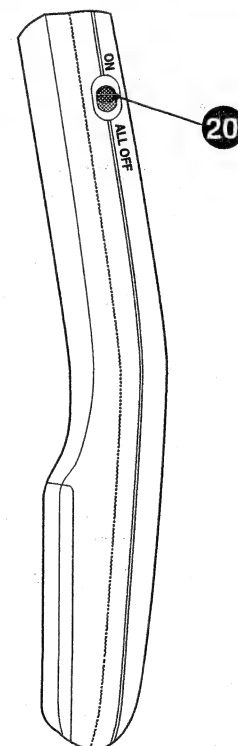
LASER RADIATION  
DO NOT STARE INTO BEAM  
CLASS 2 LASER PRODUCT  
LASER-STRAHLUNG  
NICHT IN DEN STRAHL BLICKEN  
LASER KLASSE 2  
レーザー放射 クラス 2 レーザ製品  
ビームをのぞき込まないこと  
IEC60825-1, Am.1 1997  
MAX OUTPUT (最大出力) : 1mW  
WAVE LENGTH (波長) : 650±20nm

FRONT



LASER POINTER  
button

SIDE



## BEFORE OPERATION

---

- 1 COMPUTER SELECT BUTTON**  
Used to select computer mode. (Computer 1 or Computer 2 Input)
- 2 VIDEO SELECT BUTTON**  
Used to select video mode.
- 3 POWER ON/OFF BUTTON**  
Used to turn the projector on or off.
- 4 ZOOM BUTTONS**  
Used to operate power zoom lens.
- 5 FOCUS BUTTONS**  
Used to operate power focus system.
- 6 VOLUME BUTTONS**  
Used to adjust volume.
- 7 SOUND MUTE BUTTON**  
Used to mute sound.
- 8 DIGITAL ZOOM BUTTONS**  
Used to operate digital zoom function.
- 9 MENU BUTTON**  
This button will activate the MENU operation. Use this button, the POINT UP/DOWN/LEFT/RIGHT button and the SELECT button to make adjustments to the projector's setting in MENU operation.
- 10 POINTING PAD (POINT UP/DOWN/LEFT/RIGHT BUTTON)**  
**When in use as a remote for the projector**  
To select an item on the MENU that you want to adjust. To select an item, move the arrow by pressing the pad upward, downward, leftward or rightward. When pressing the center of this button, it works as the SELECT button.  
**When in use as a wireless mouse**  
Used to move the pointer. The pointer is moved according to the direction you are pressing.
- 11 SELECT BUTTON**  
**When in use as a remote for the projector.**  
This button has different functions depending on when used. This button is used to execute the item selected, to increase or decrease the values in certain items such as CONTRAST or BRIGHTNESS.  
**When in use as a wireless mouse**  
This button has the same function as the left button in a PC mouse.
- 12 FRONT CLICK BUTTON**  
**When in use as a remote for the projector**  
Used to compress the image in D.ZOOM mode.  
**When in use as a wireless mouse**  
This button has the same function as the right button in a PC mouse.
- 13 LASER BUTTON**  
Used to operate laser pointer function. The laser beam is emitted while pressing this button within 1 minute. When using the laser pointer for more than 1 minute, release the button and press it again.
- 14 NO SHOW BUTTON**  
Used to change the screen into black image.
- 15 KEYSTONE BUTTONS**  
Used to revise the keystone distortion.
- 16 FREEZE BUTTON**  
Used this button to freeze on-screen image.
- 17 AUTO IMAGE BUTTON**  
Used to operate the AUTO IMAGE function.
- 18 NORMAL BUTTON**  
Used to reset to normal picture adjustment preset by factory.
- 19 P-TIMER BUTTON**  
Used to operate the P-TIMER function.
- 20 ALL-OFF SWITCH**  
Turn this switch to "ALL OFF" when the Remote Control is not used for extended period.



## COMPATIBLE COMPUTER SPECIFICATIONS

ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq. (Hz)
VGA1	640 x 480	31.47	59.88
VGA2	720 x 400	31.47	70.09
VGA3	640 x 400	31.47	70.09
VGA4	640 x 480	37.86	74.38
VGA5	640 x 480	37.86	72.81
VGA6	640 x 480	37.50	75.00
VGA7	640 x 480	43.269	85.00
Mac LC13	640 x 480	34.97	66.60
Mac13	640 x 480	35.00	66.67
RGB	—————	15.625	50.00 (Interface)
RGB	—————	15.734	60.00 (Interface)
SVGA1	800 x 600	35.156	56.25
SVGA2	800 x 600	37.88	60.32
SVGA3	800 x 600	46.875	75.00
SVGA4	800 x 600	53.674	85.06
SVGA5	800 x 600	48.08	72.19
SVGA6	800 x 600	37.90	61.03
SVGA7	800 x 600	34.50	55.38
SVGA8	800 x 600	38.00	60.51
SVGA9	800 x 600	38.60	60.31
SVGA10	800 x 600	32.70	51.09
SVGA11	800 x 600	38.00	60.51
Mac16	832 x 624	49.72	74.55
XGA1	1024 x 768	48.36	60.00
XGA2	1024 x 768	68.677	84.997
XGA3	1024 x 768	60.023	75.03
XGA4	1024 x 768	56.47	70.07
XGA5	1024 x 768	60.31	74.92
XGA6	1024 x 768	48.50	60.02
XGA7	1024 x 768	44.00	54.58
XGA8	1024 x 768	63.48	79.35
XGA9	1024 x 768	36.00	87.17 (Interface)
XGA10	1024 x 768	62.04	77.07
XGA11	1024 x 768	61.00	75.70

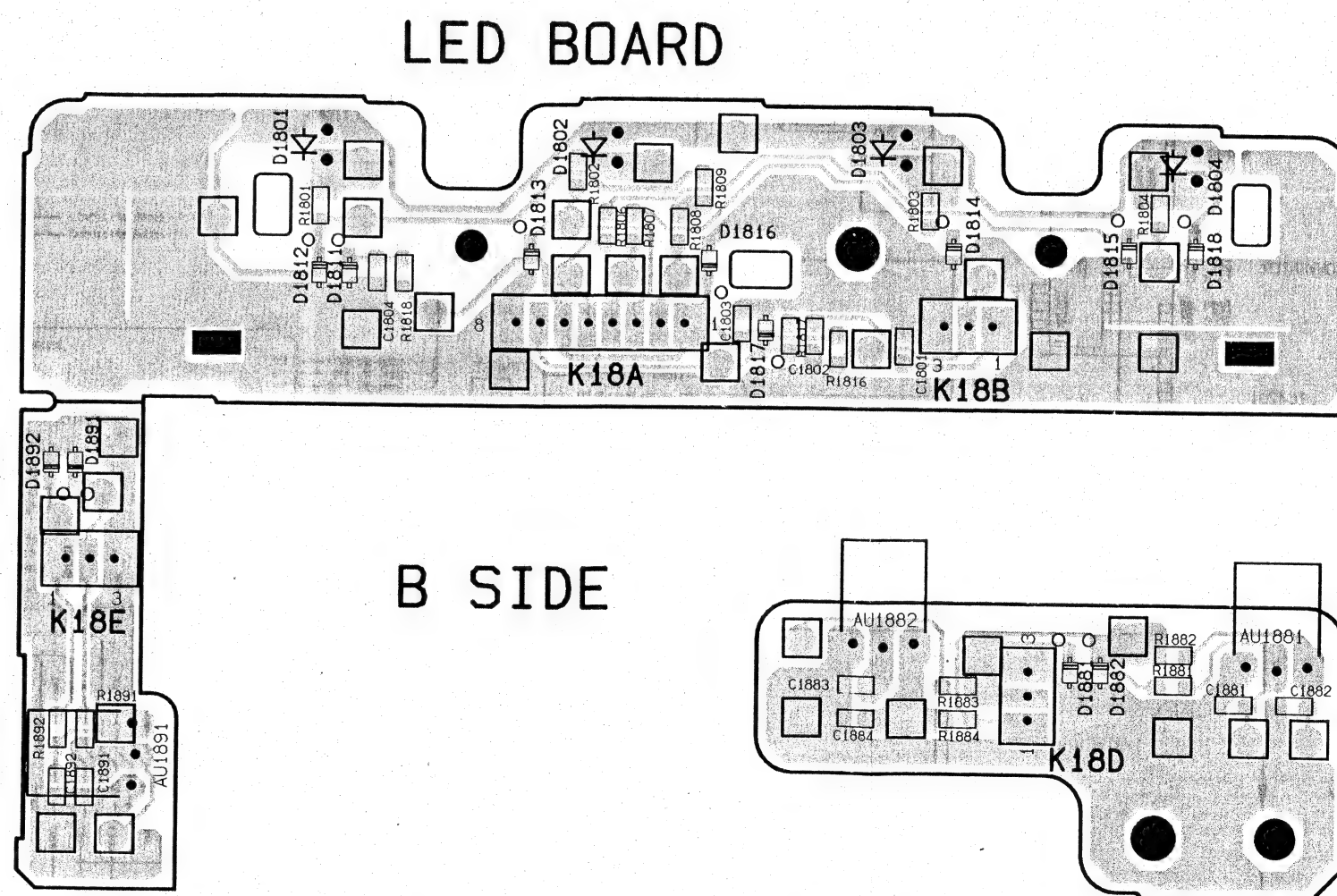
ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq. (Hz)
XGA12	1024 x 768	35.522	86.96 (Interface)
XGA13	1024 x 768	46.90	58.20
XGA14	1024 x 768	47.00	58.30
XGA15	1024 x 768	58.03	72.00
Mac19	1024 x 768	60.24	75.08
SXGA1	1152 x 864	64.20	70.40
SXGA2	1280 x 1024	62.50	58.60
SXGA3	1280 x 1024	63.90	60.00
SXGA4	1280 x 1024	63.34	59.98
SXGA5	1280 x 1024	63.74	60.01
SXGA6	1280 x 1024	71.69	67.19
SXGA7	1280 x 1024	81.13	76.107
SXGA8	1280 x 1024	63.98	60.02
SXGA9	1280 x 1024	79.976	75.025
SXGA10	1280 x 960	60.00	60.00
SXGA11	1152 x 900	61.20	65.20
SXGA12	1152 x 900	71.40	75.60
SXGA13	1280 x 1024	50.00	86.00 (Interface)
SXGA14	1280 x 1024	50.00	94.00 (Interface)
SXGA15	1280 x 1024	63.37	60.01
SXGA16	1280 x 1024	76.97	72.00
SXGA17	1152 x 900	61.85	66.00
SXGA18	1280 x 1024	46.43	86.70 (Interface)
SXGA19	1280 x 1024	63.79	60.18
SXGA20	1280 x 1024	91.146	85.024
Mac21	1152 x 870	68.68	75.06
Mac	1280 x 960	75.00	75.08
Mac	1280 x 1024	80.00	75.08
HDTV720p	—————	45.00	60.00
HDTV1035i	—————	33.75	60.00 (Interface)
HDTV1080i	—————	33.75	60.00 (Interface)

Specifications are subject to change without notice.

**NOTE:** Basically this projector can accept the signal from all computers with the above mentioned V, H-Frequency and less than 165 MHz of Dot Clock.

**P 1**

# PRINTED WIRING DIAGRAMS AND COMPONENT LOCATIONS



# RC-REAR BOARD

# RC-FRONT BOARD

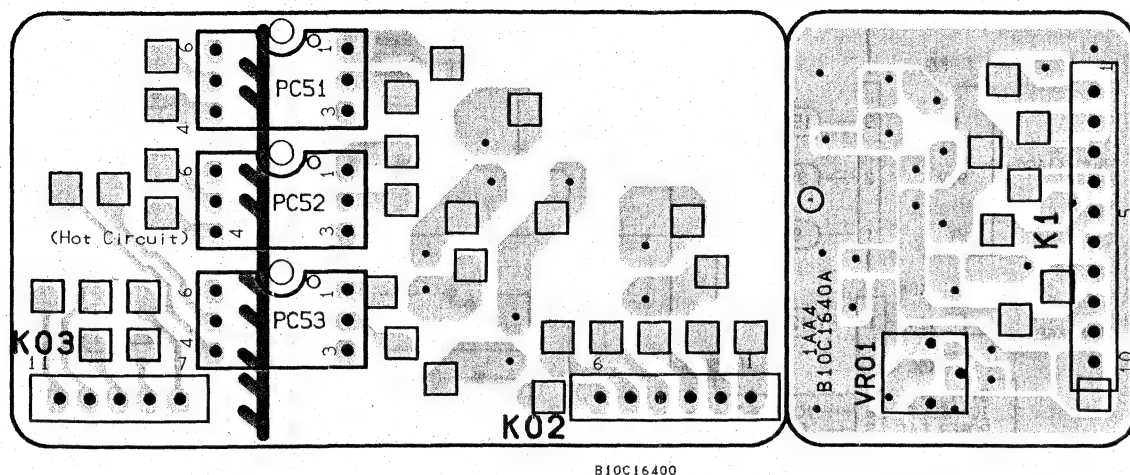
AUDIO BOARD

SUB POWER BOAR

B SIDE

HIC-B BOARD

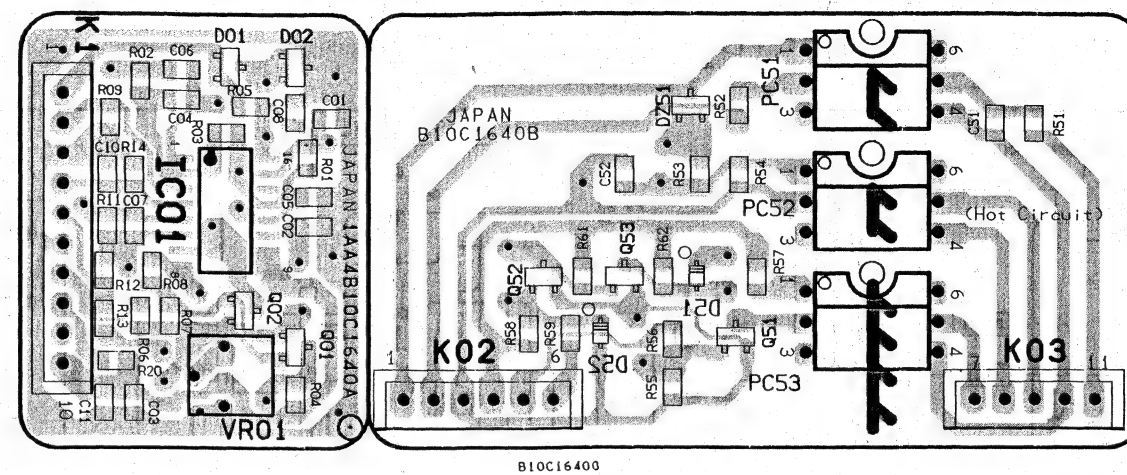
HIC-A BOARD



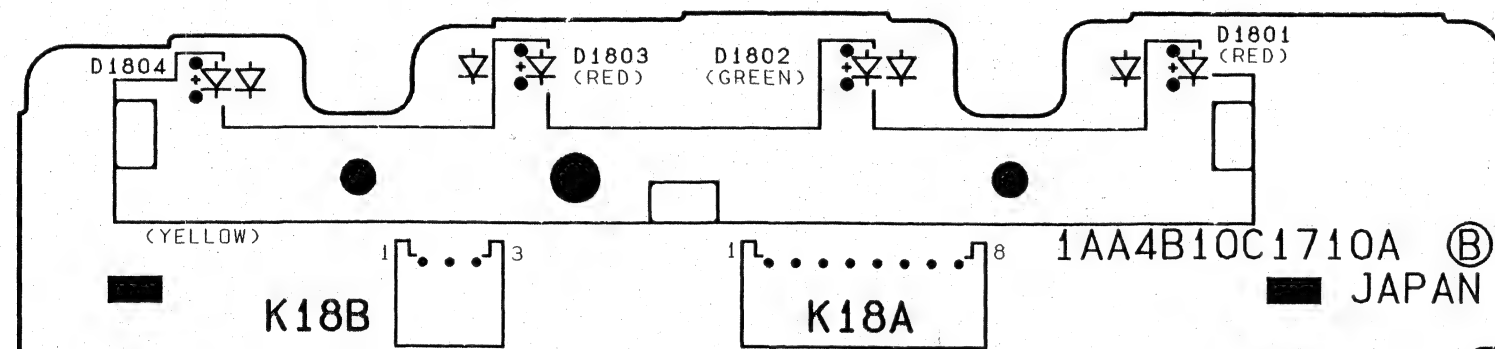
A SIDE

HIC-A BOARD

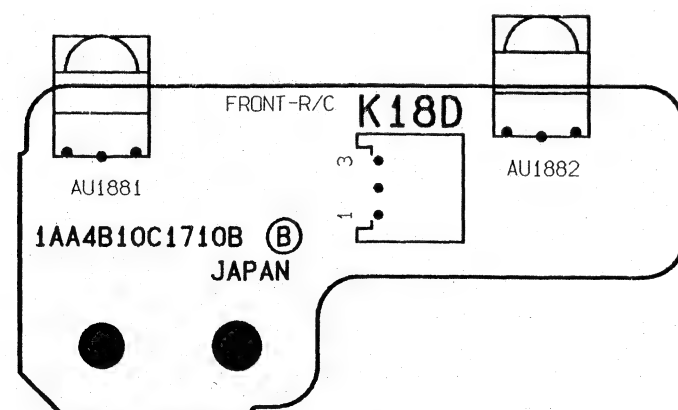
HIC-B BOARD



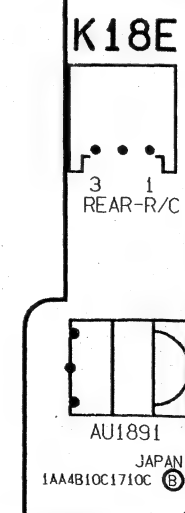
LED BOARD



A SIDE



RC-FRONT BOARD



RC-REAR BOARD

BOARD

SUB POWER BOARD

AUDIO BOARD



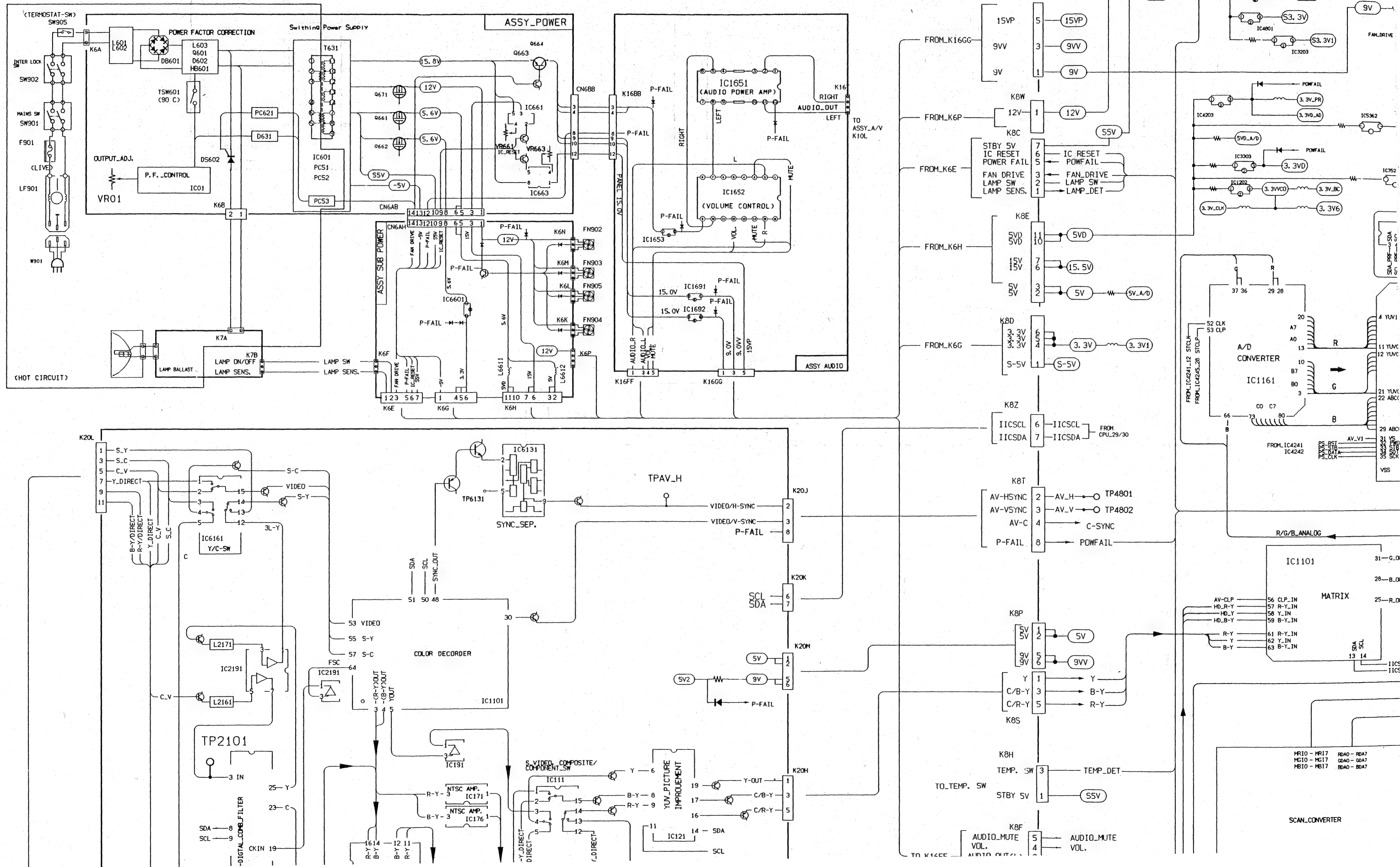


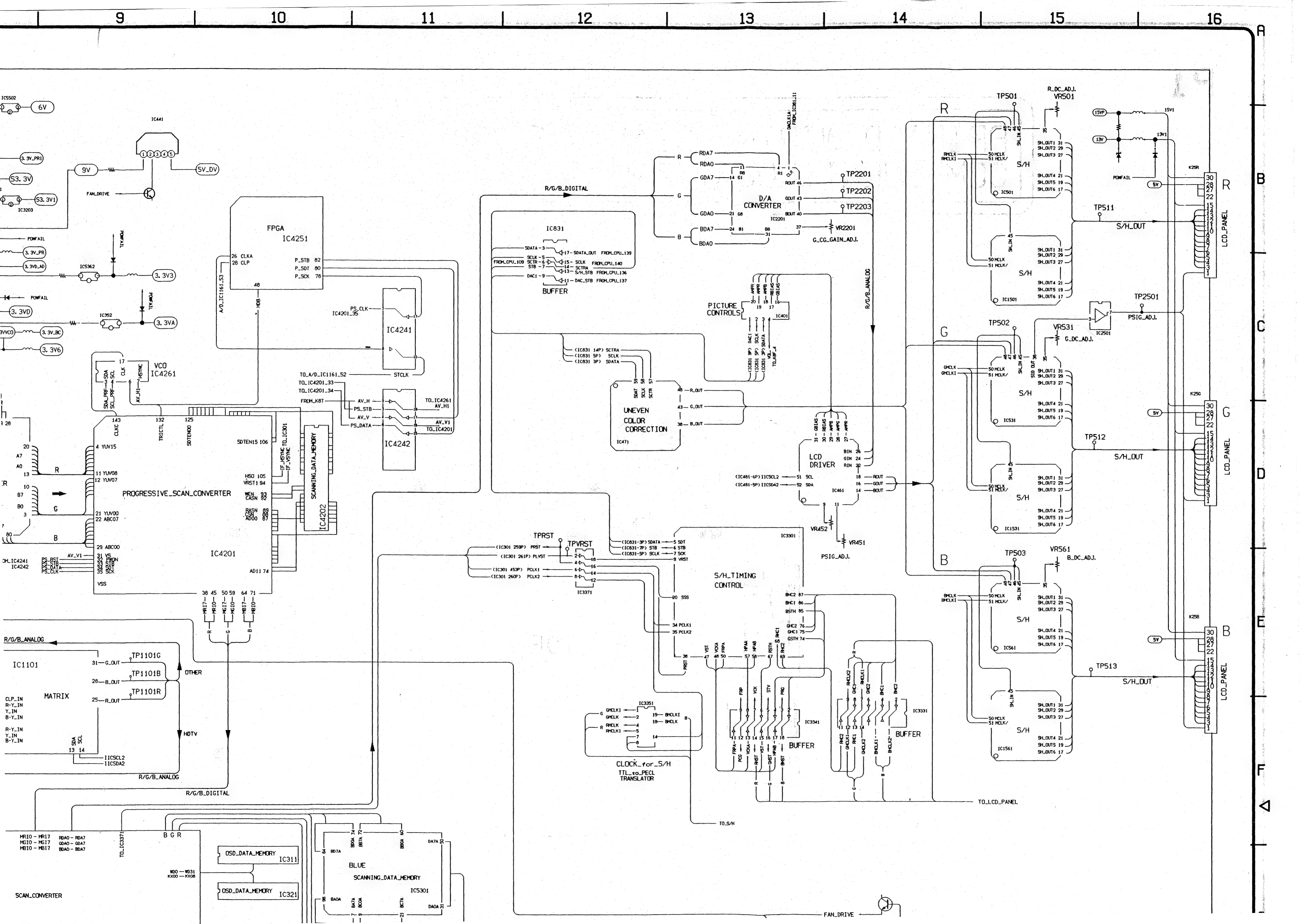


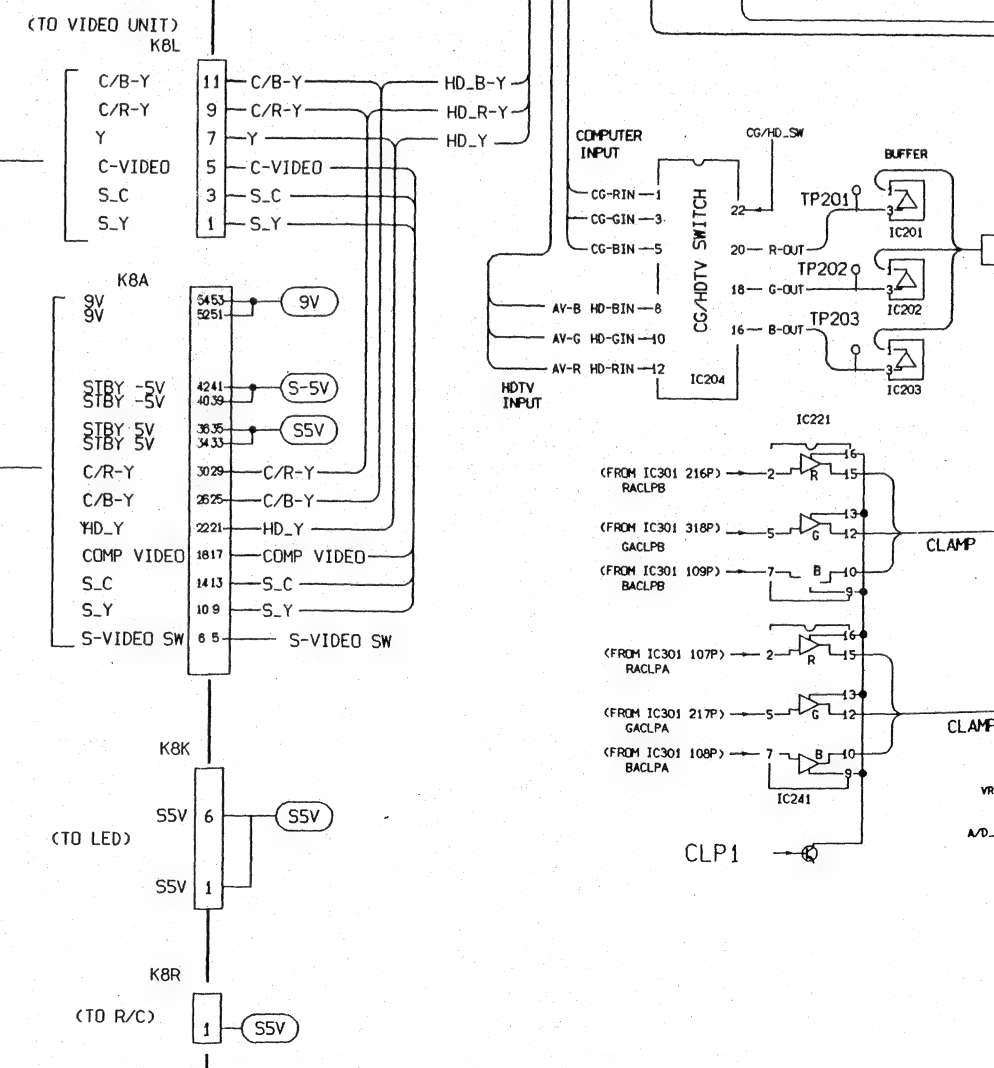




CIRCUIT\_BLOCK\_DIAGRAM  
POWER\_and\_LOWPOWER\_DISTRIBUTION











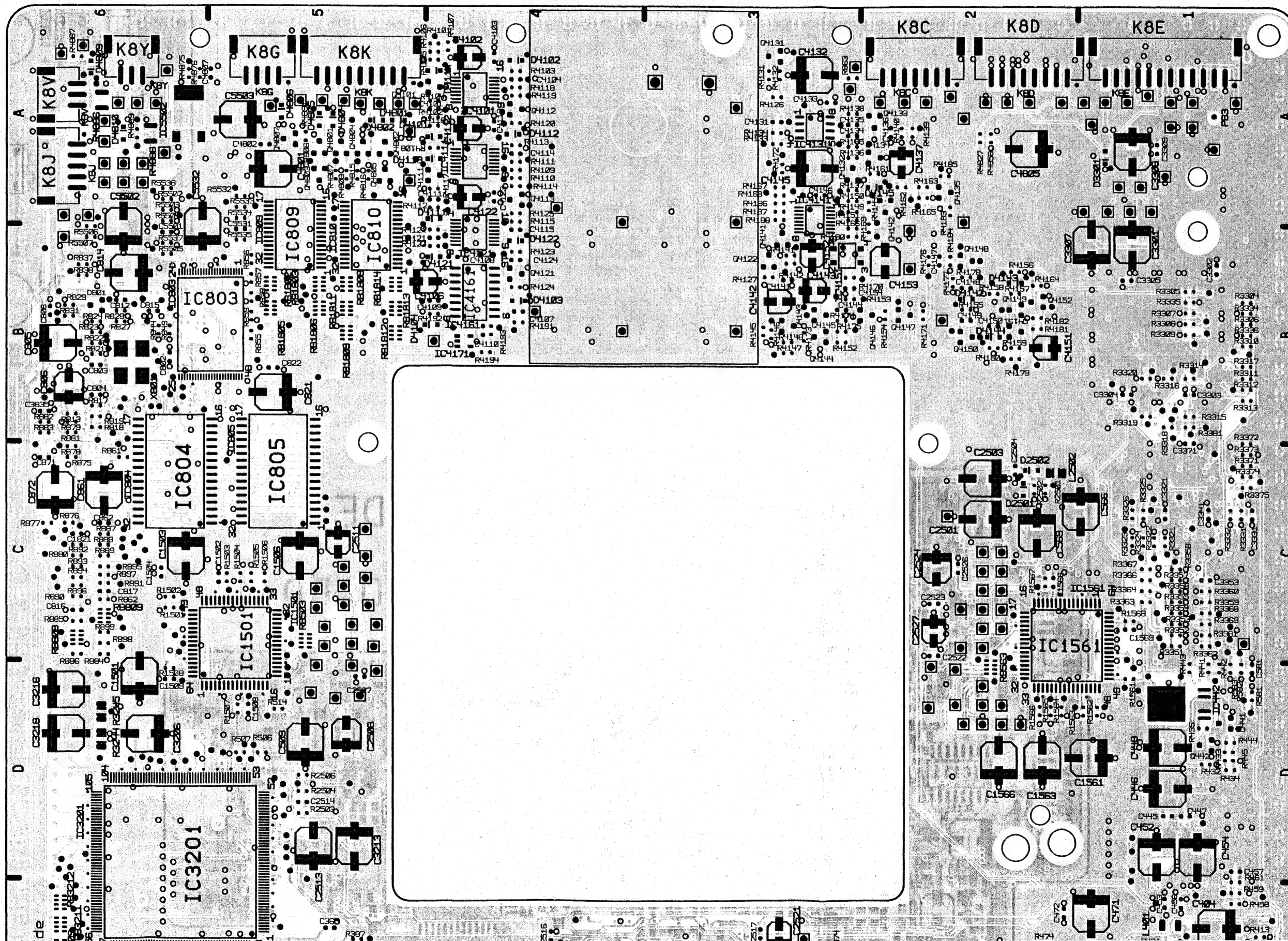
A SIDE



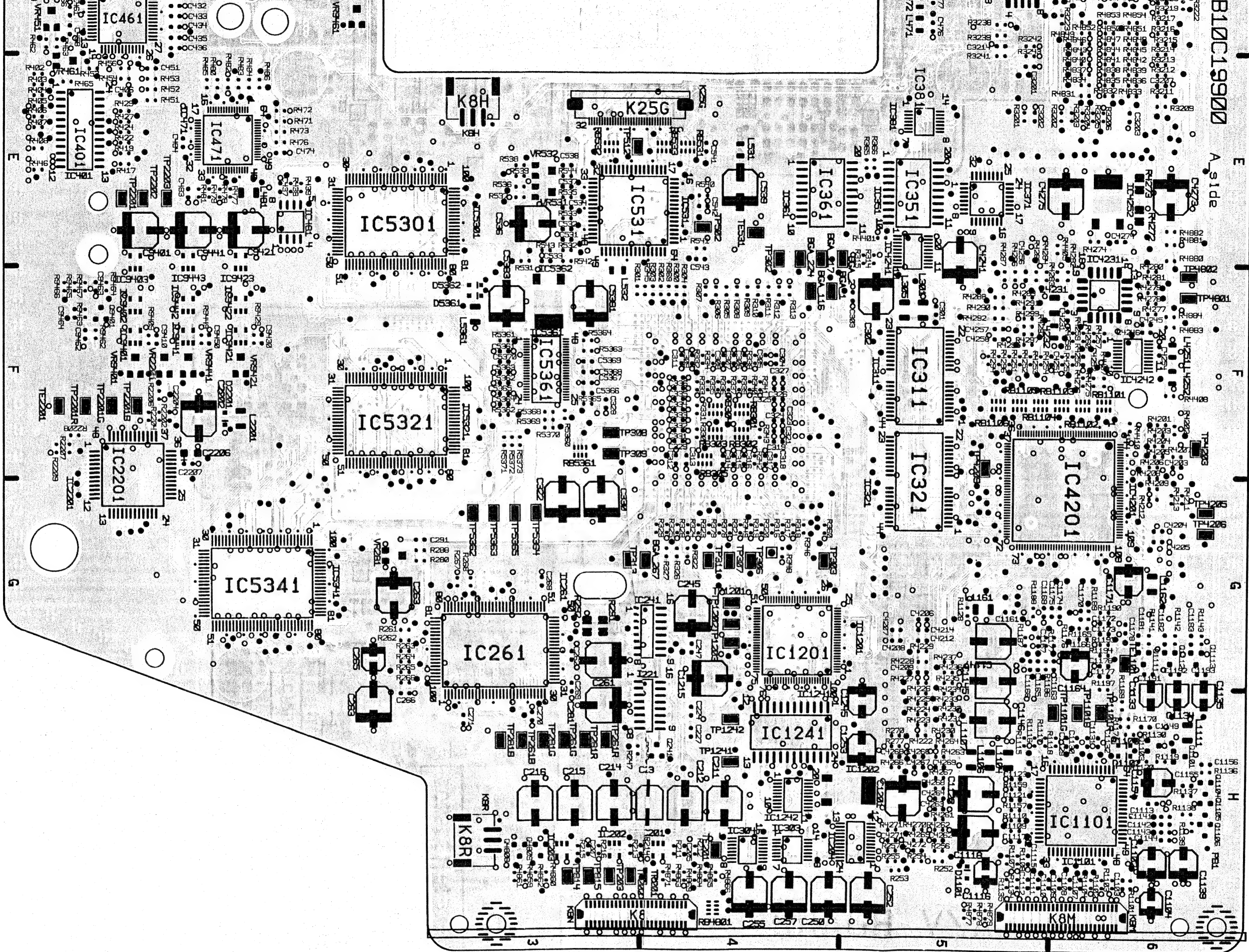


# MAIN BOARD

# B SIDE



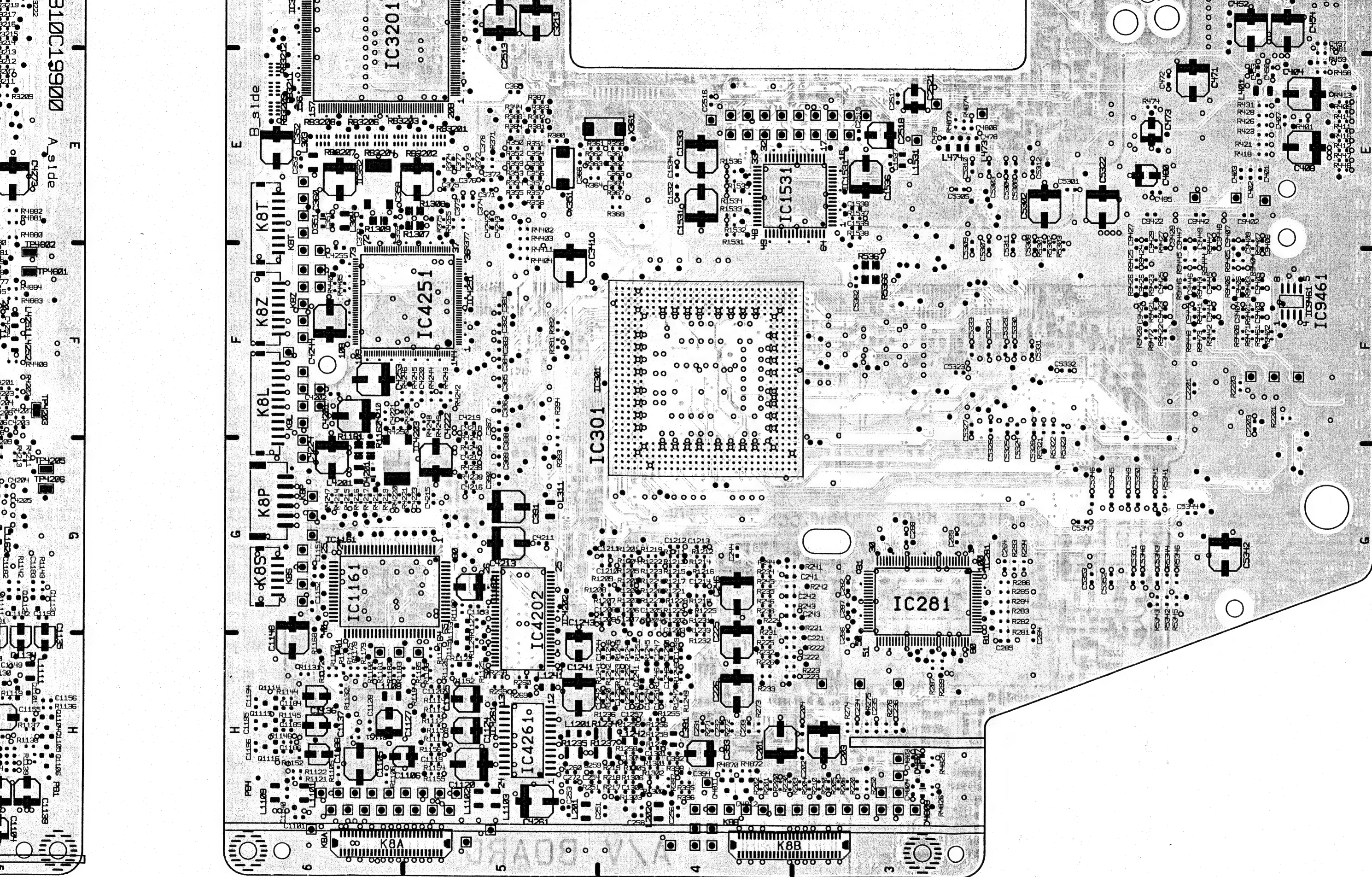




B10C19900

A side

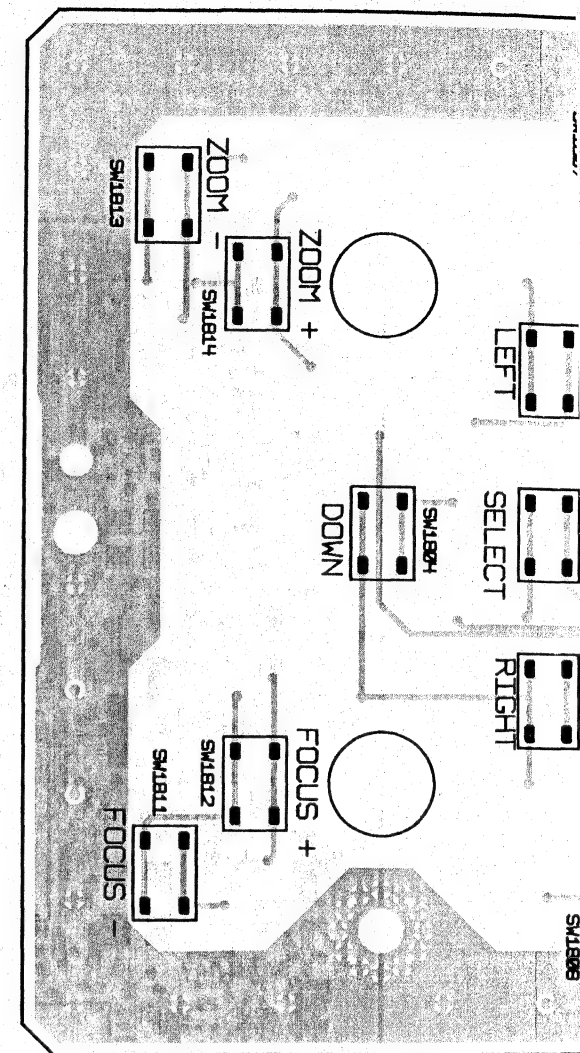




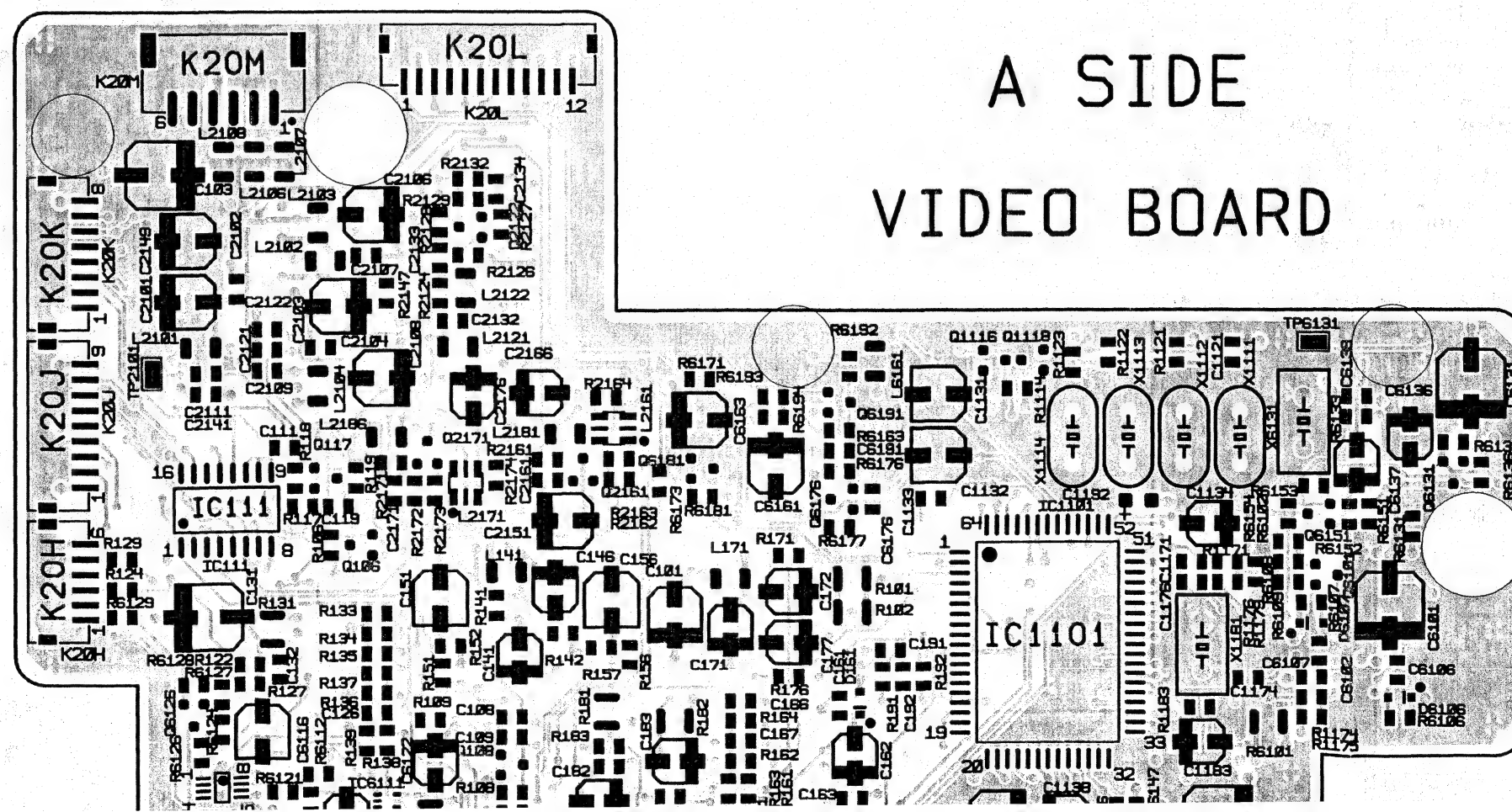


P3

CONTROL

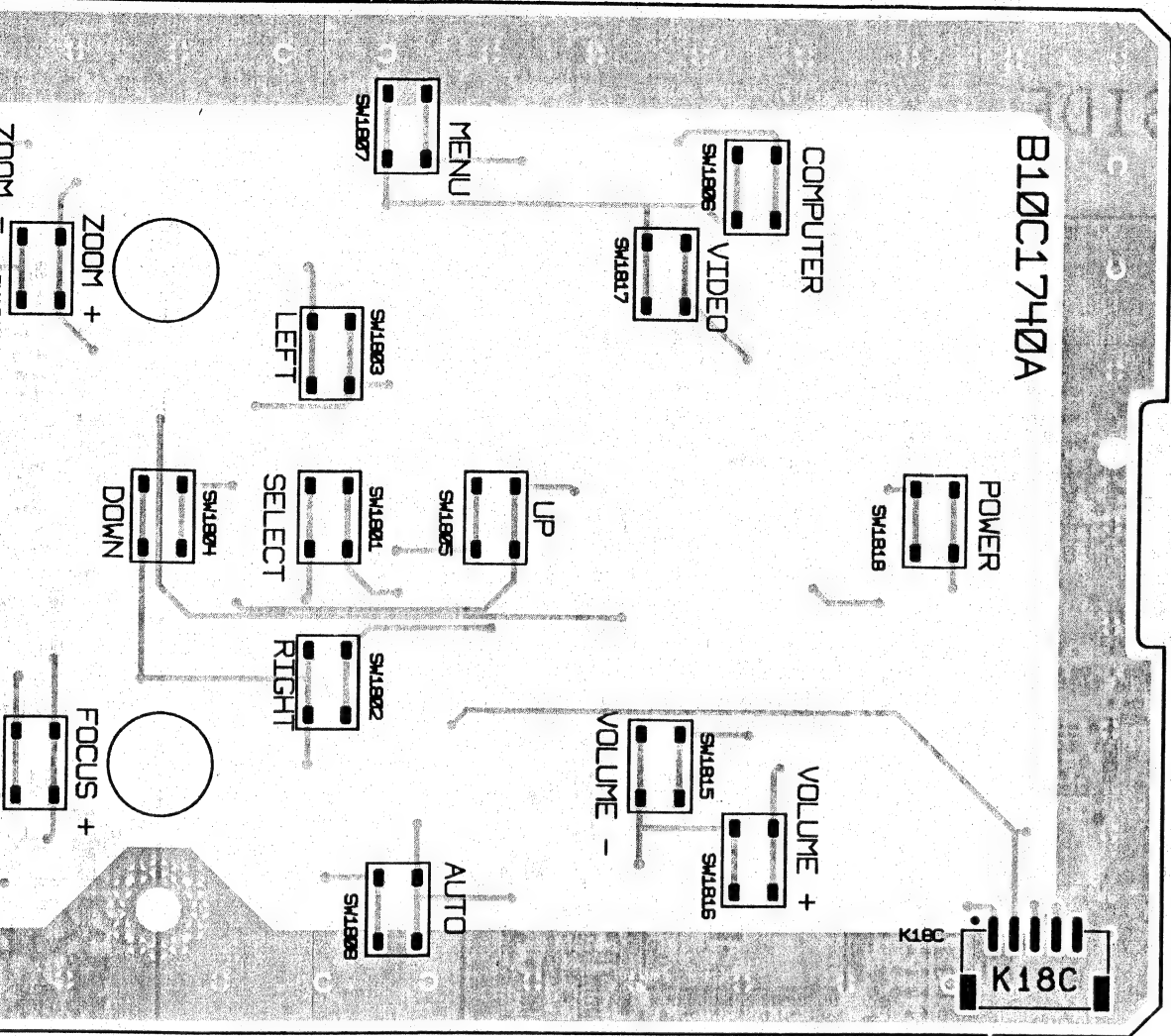


# A SIDE VIDEO BOARD



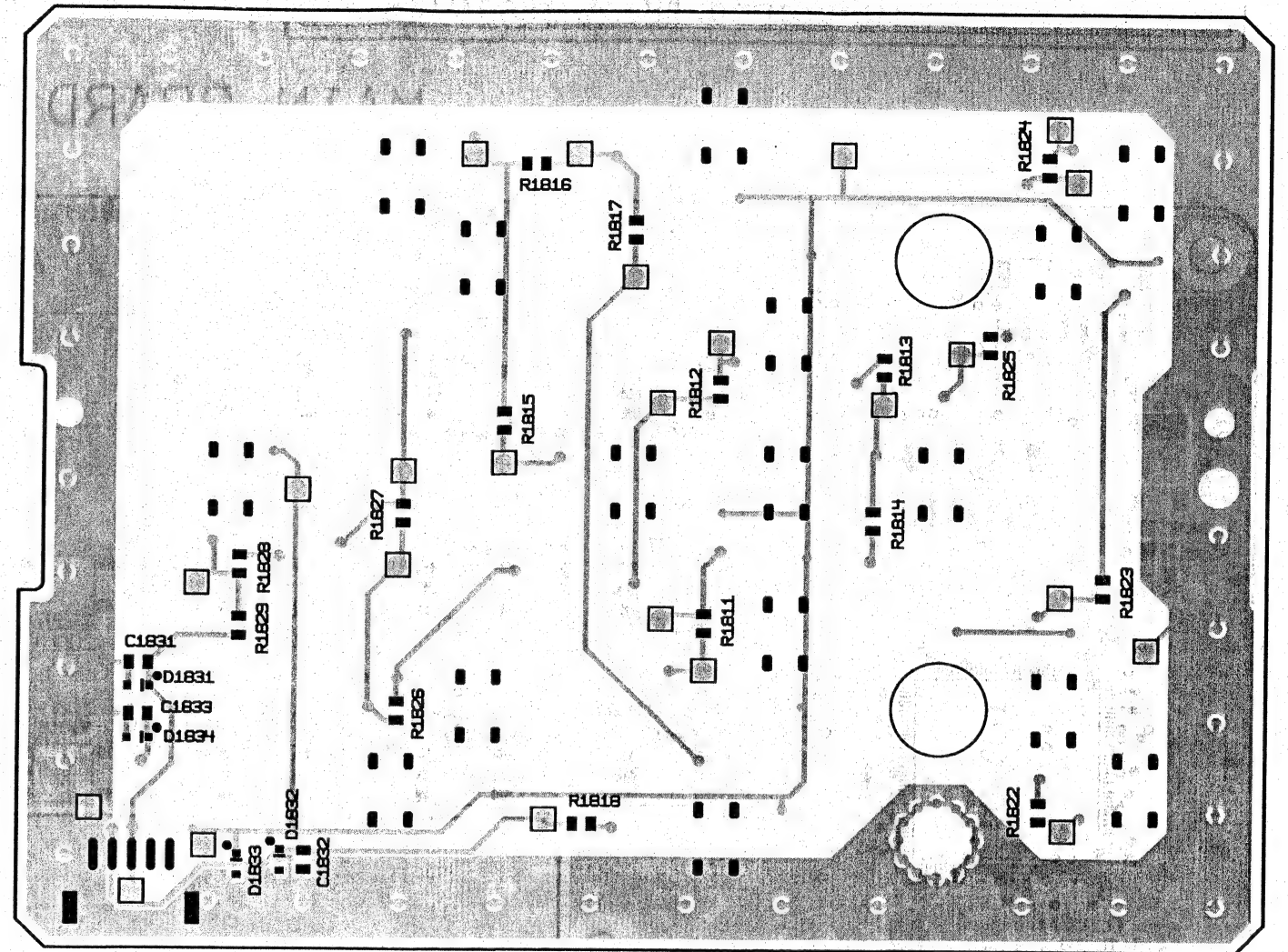
CONTROL BOARD

A SIDE



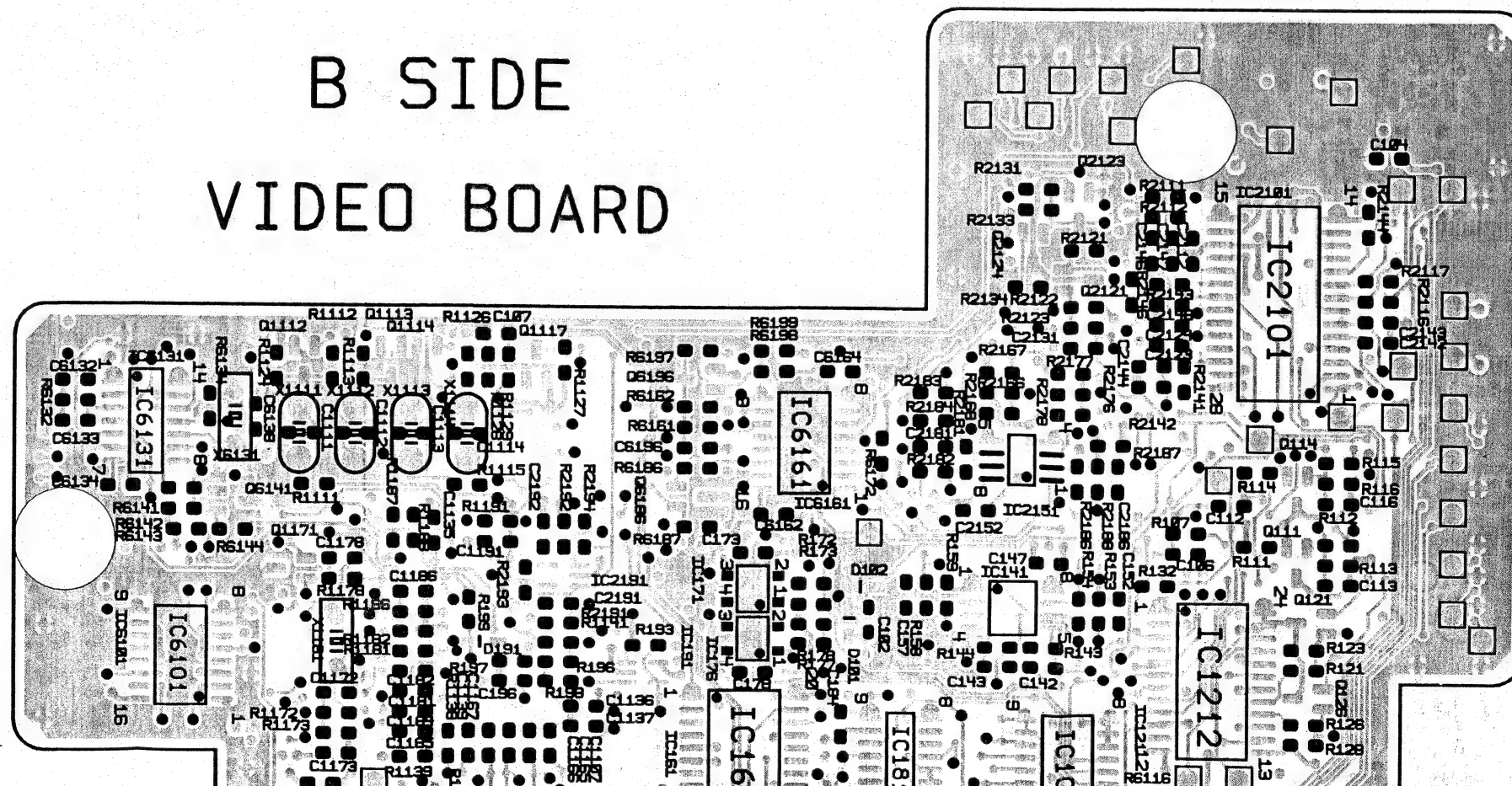
CONTROL BOARD

B SIDE

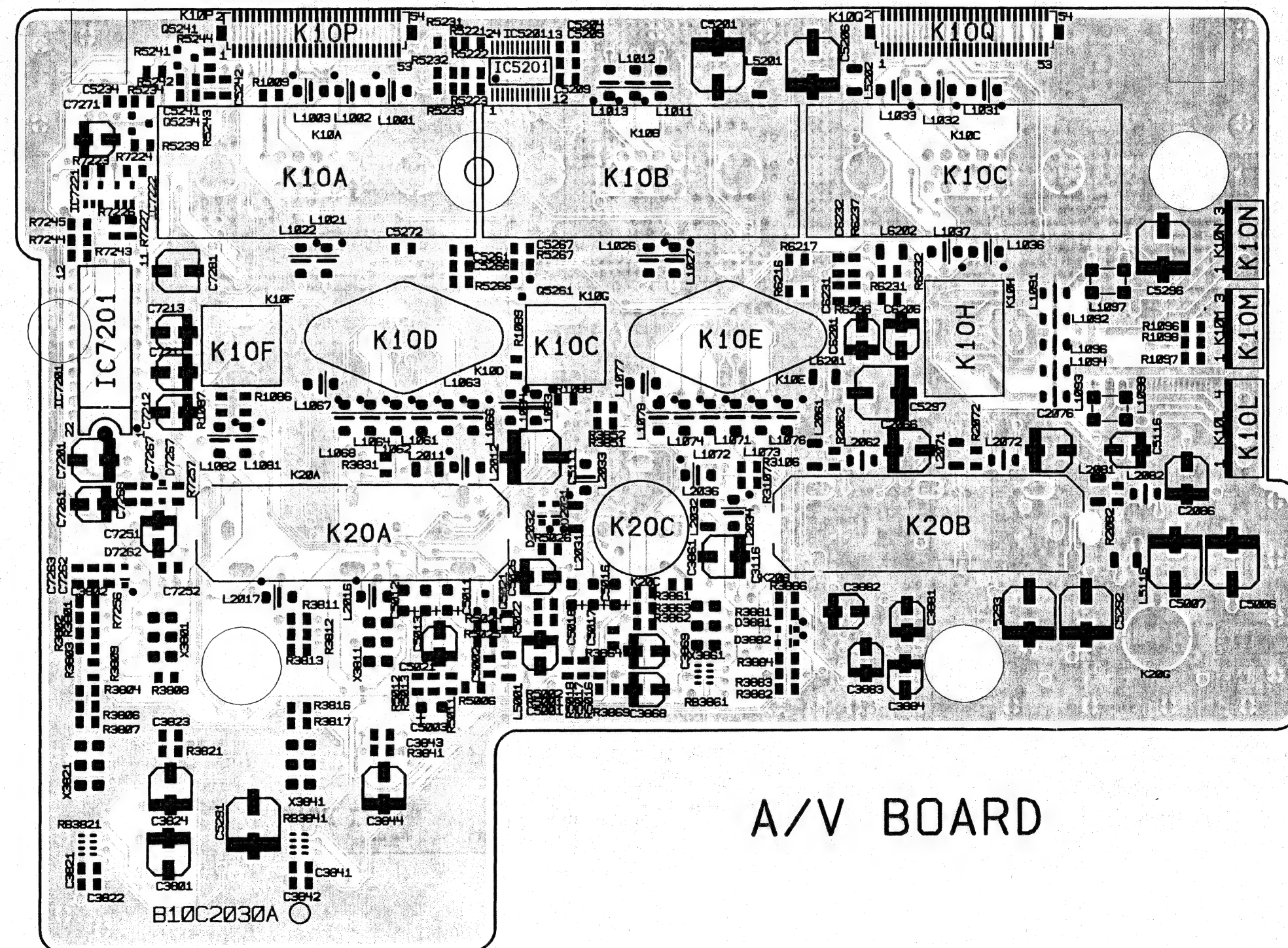
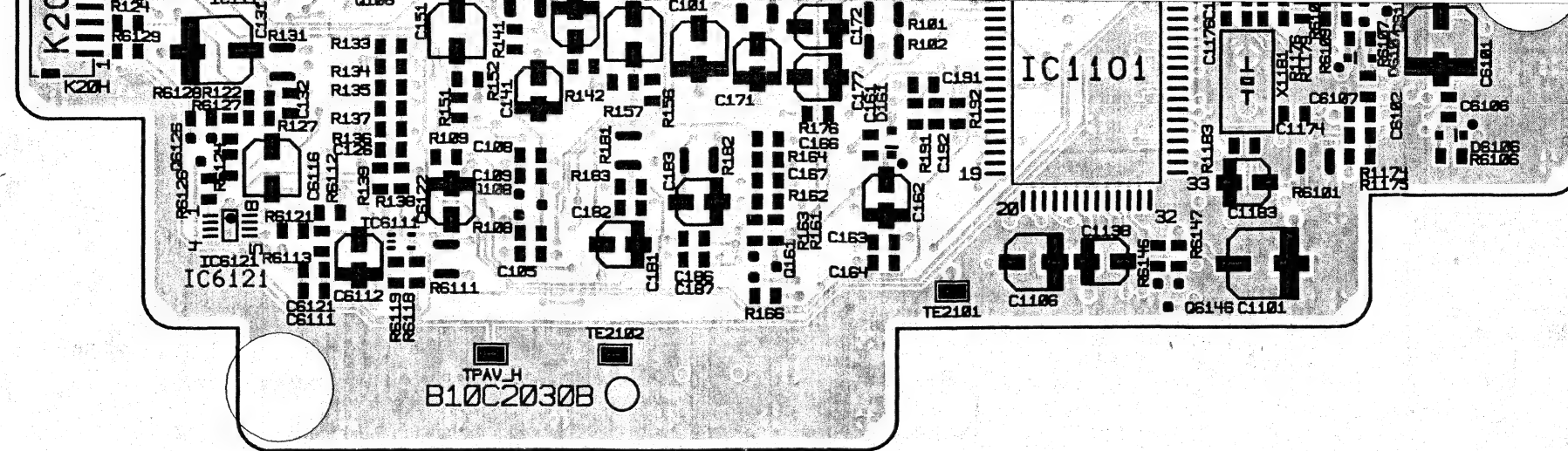


B SIDE

VIDEO BOARD

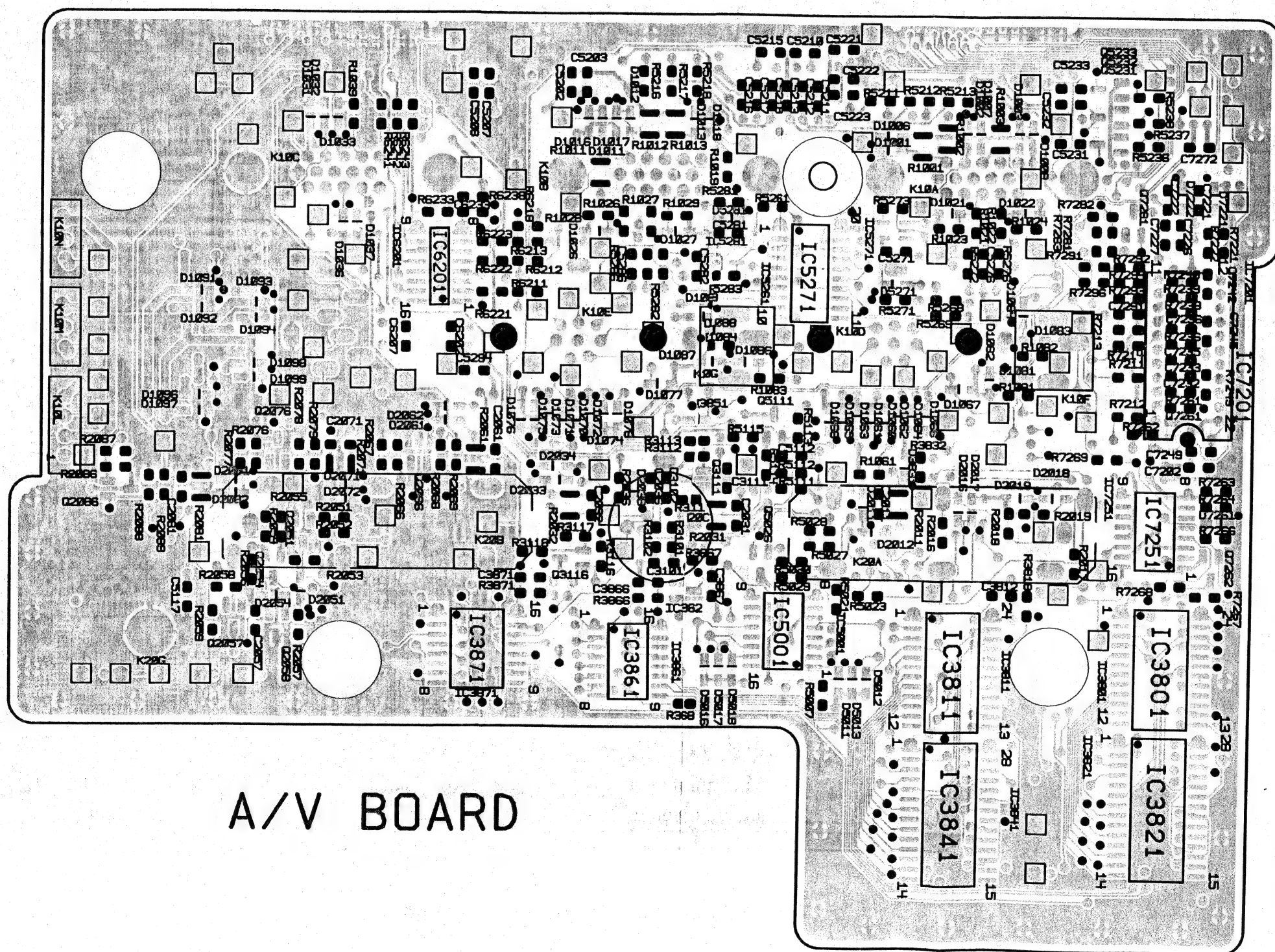
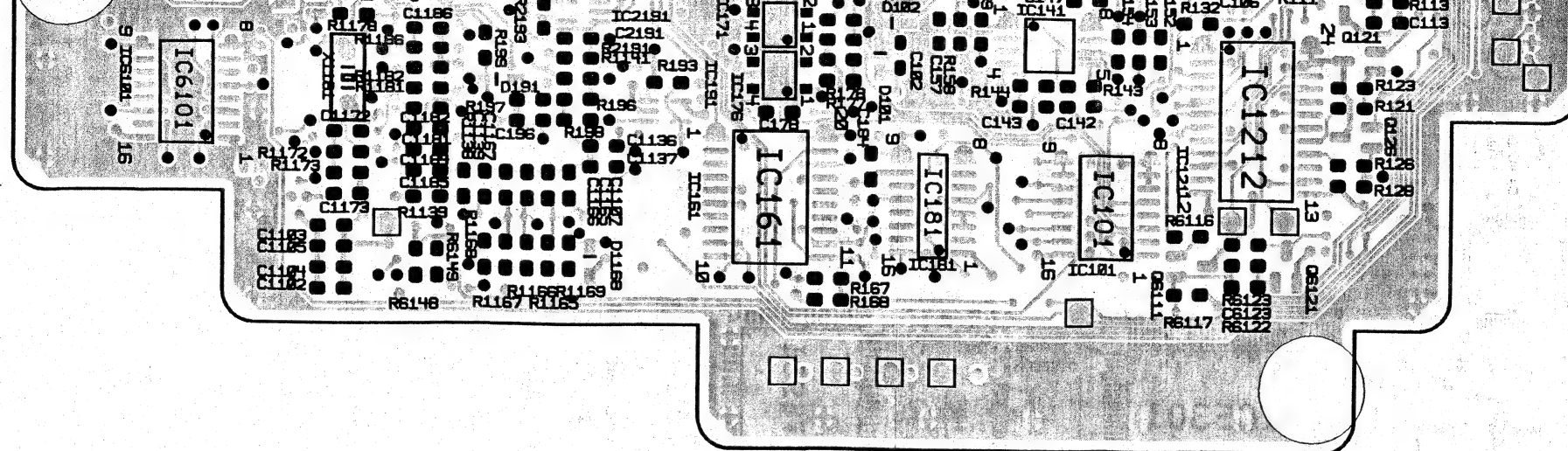






A/V BOARD

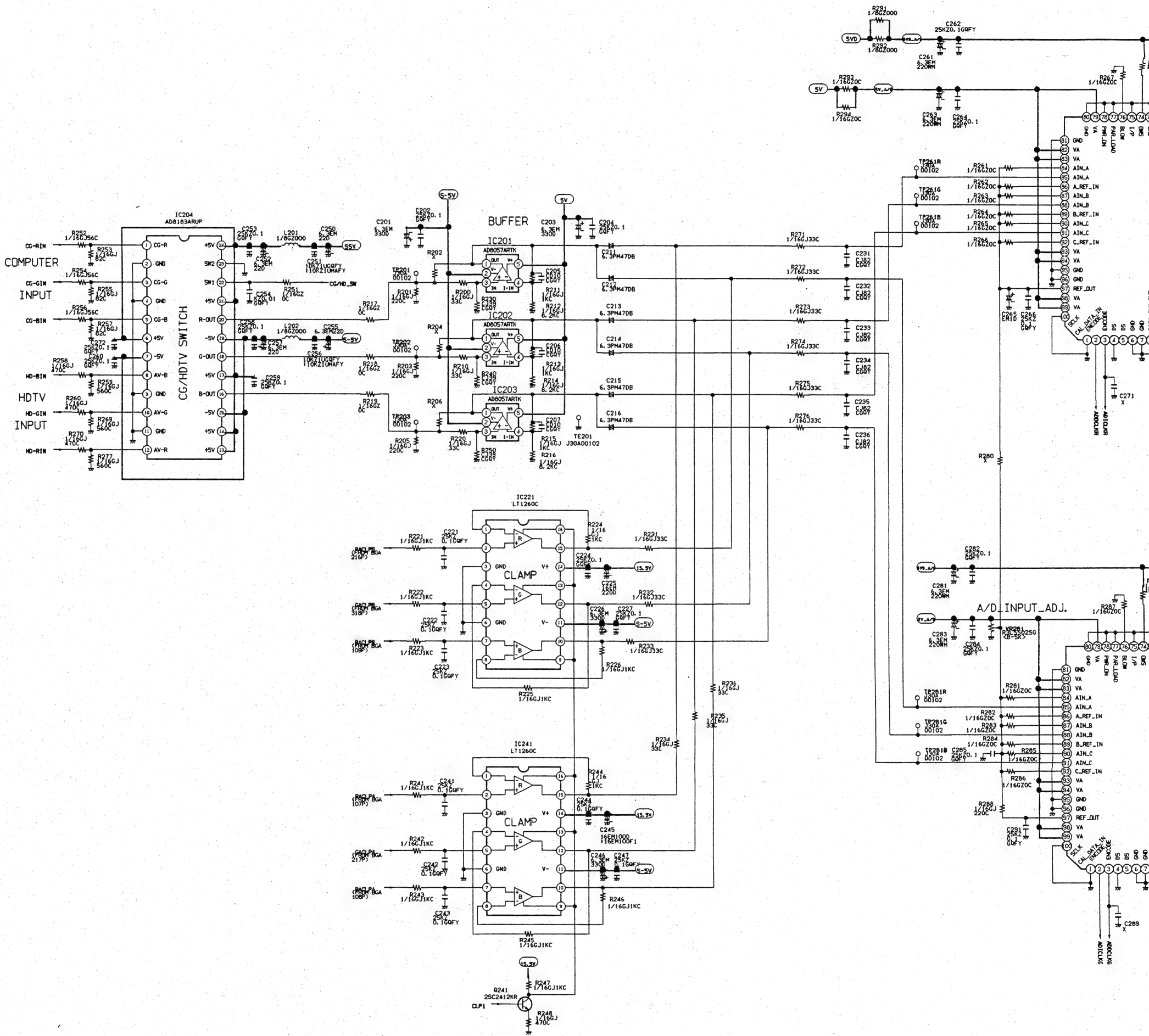




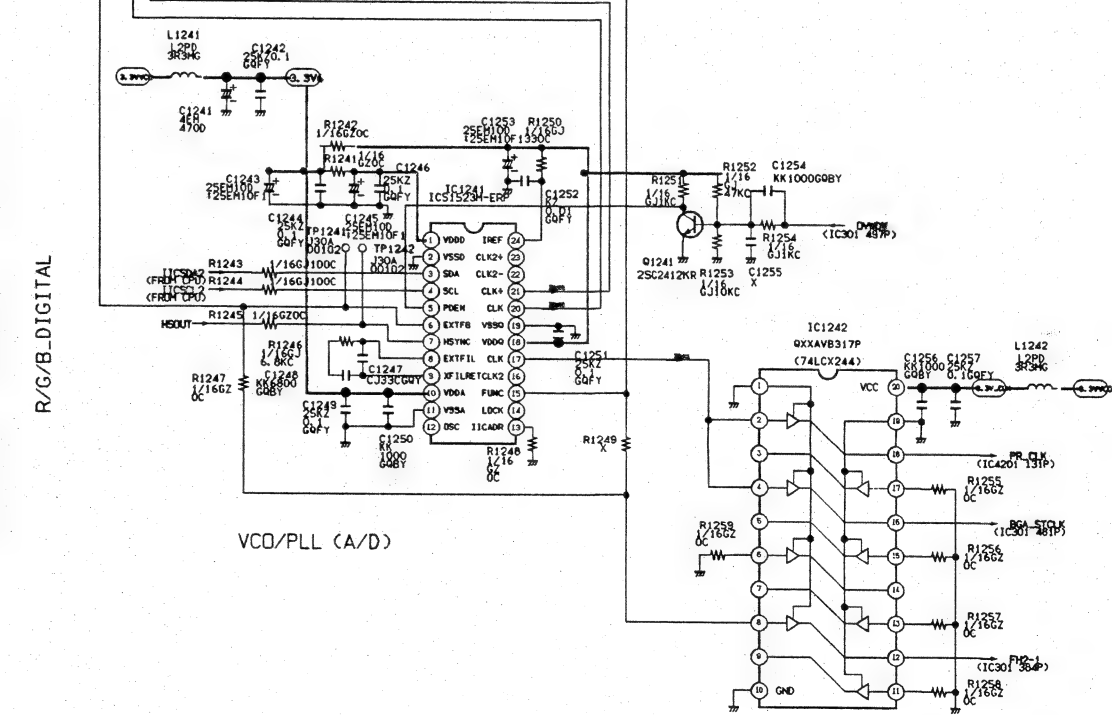
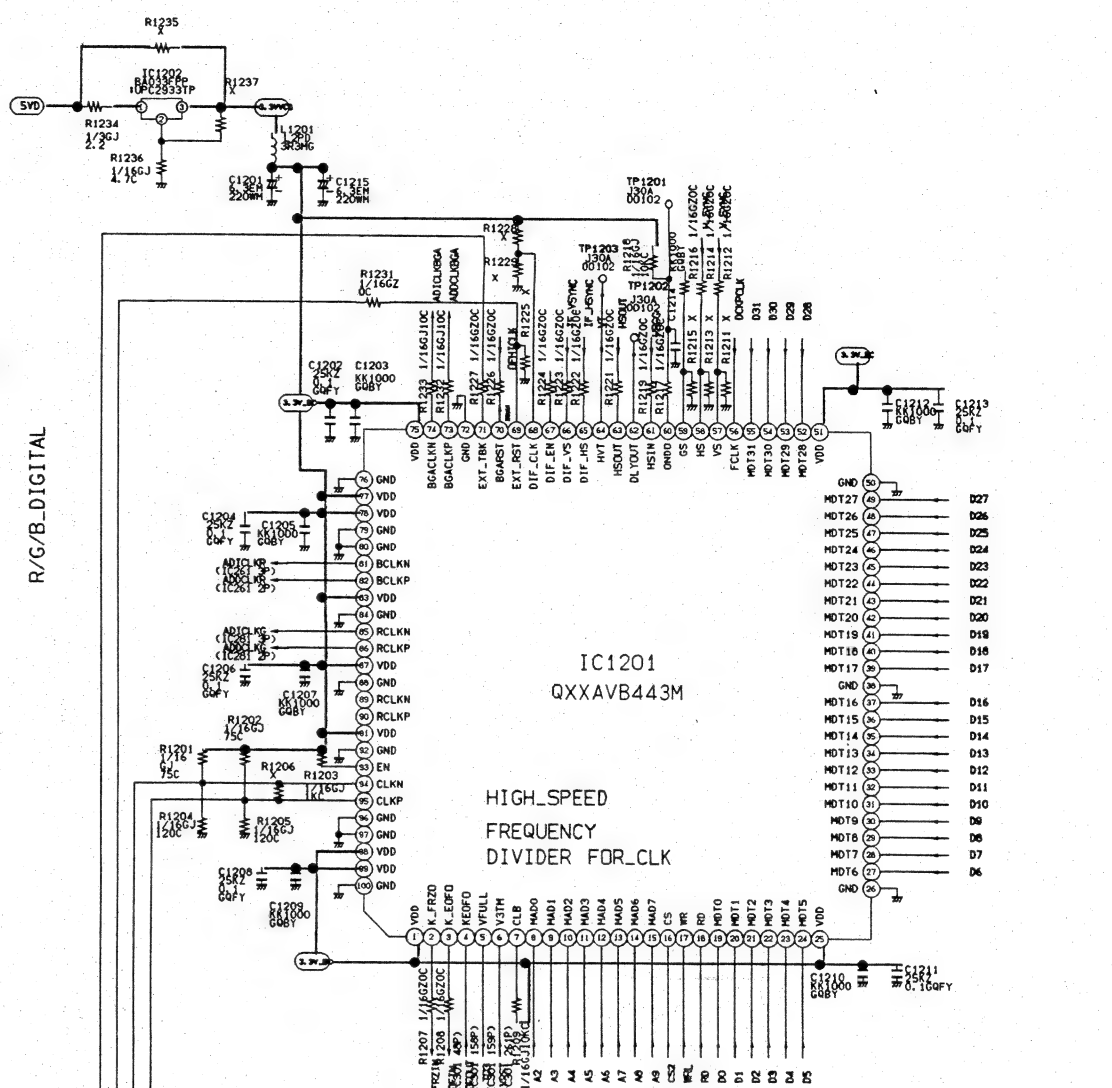
A/V BOARD

S4

ASSY MAIN 1/5



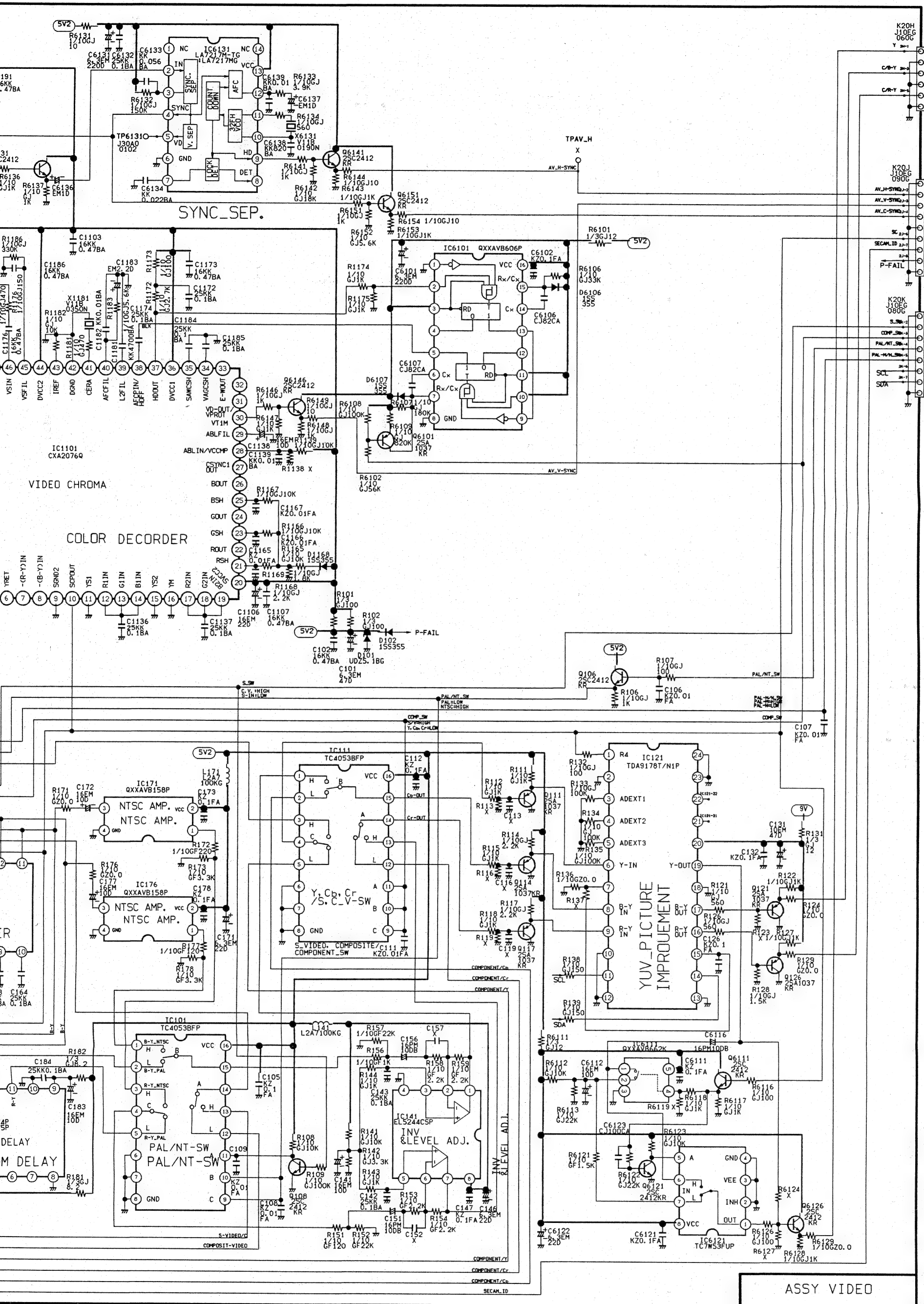








A  
B  
C  
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H  
I  
J  
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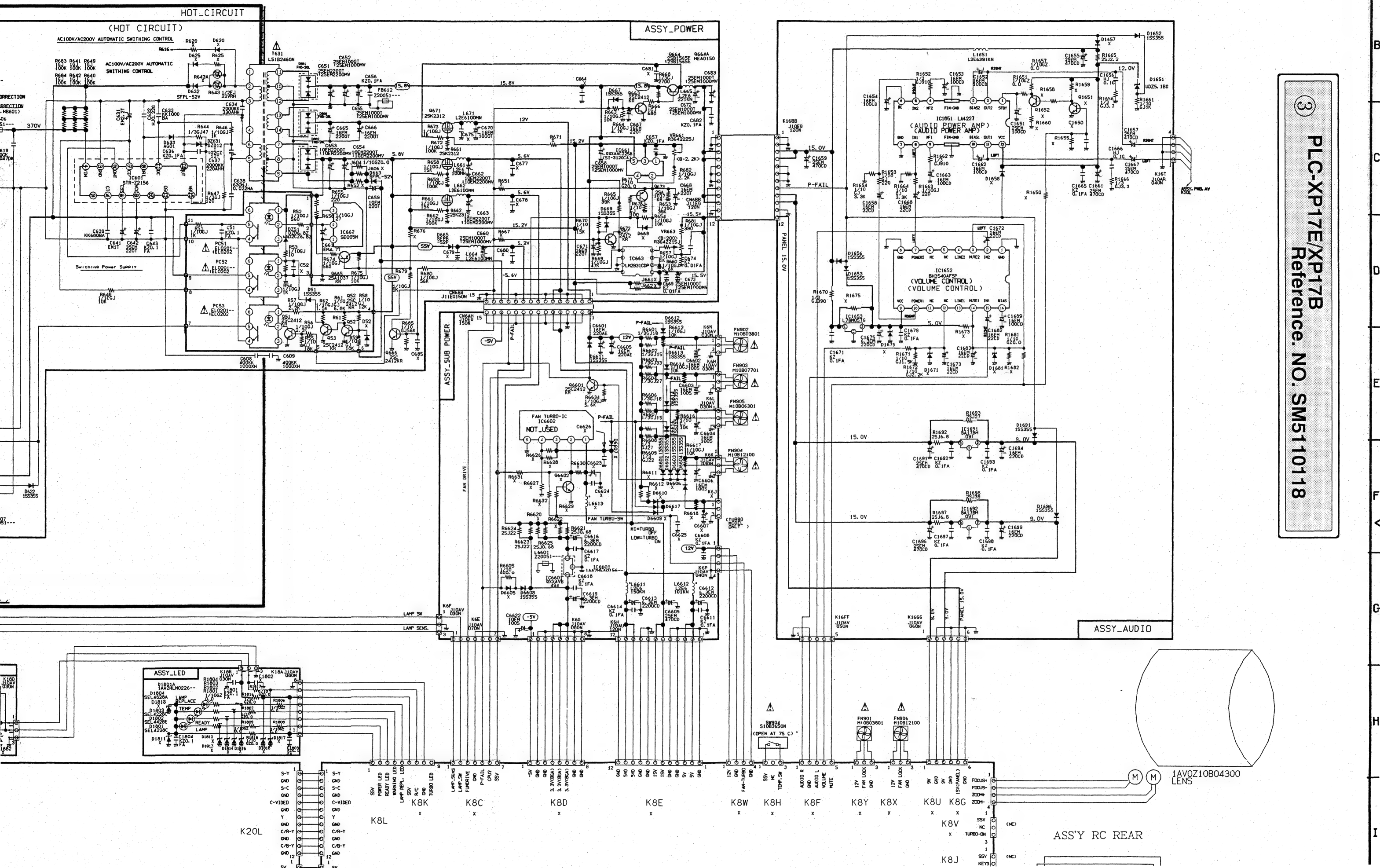




B  
—  
C  
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D  
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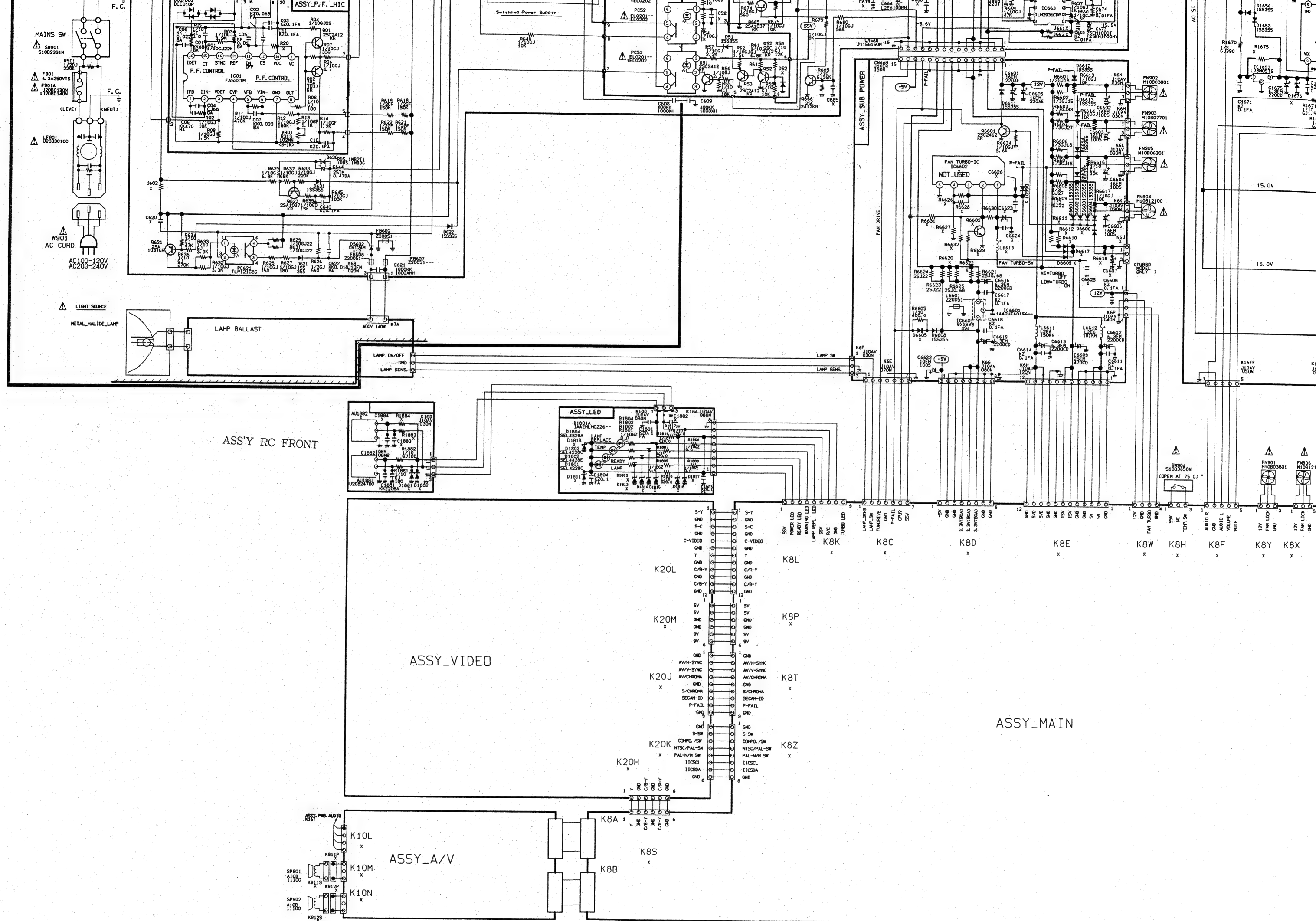


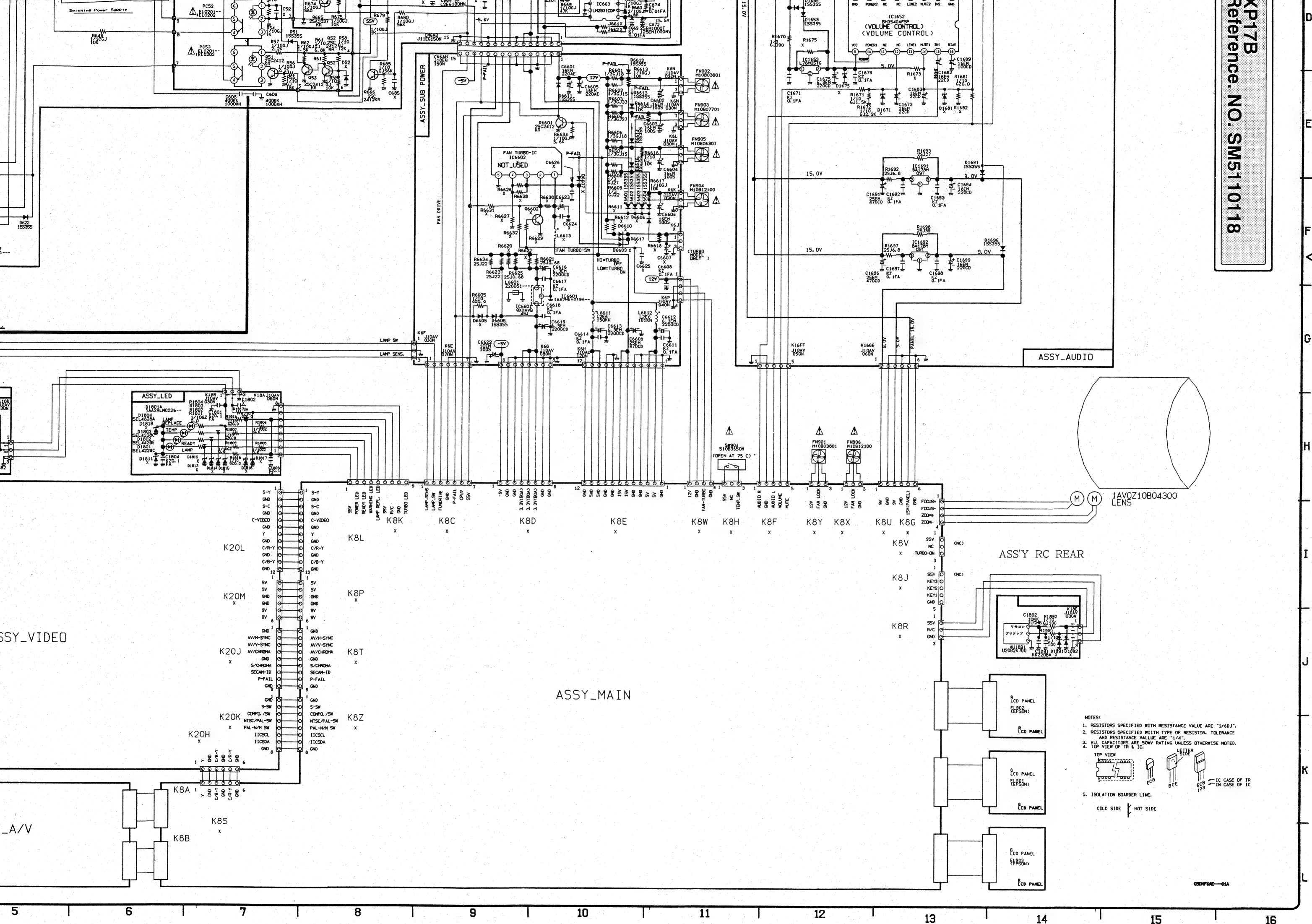
# SCHEMATIC DIAGRAMS

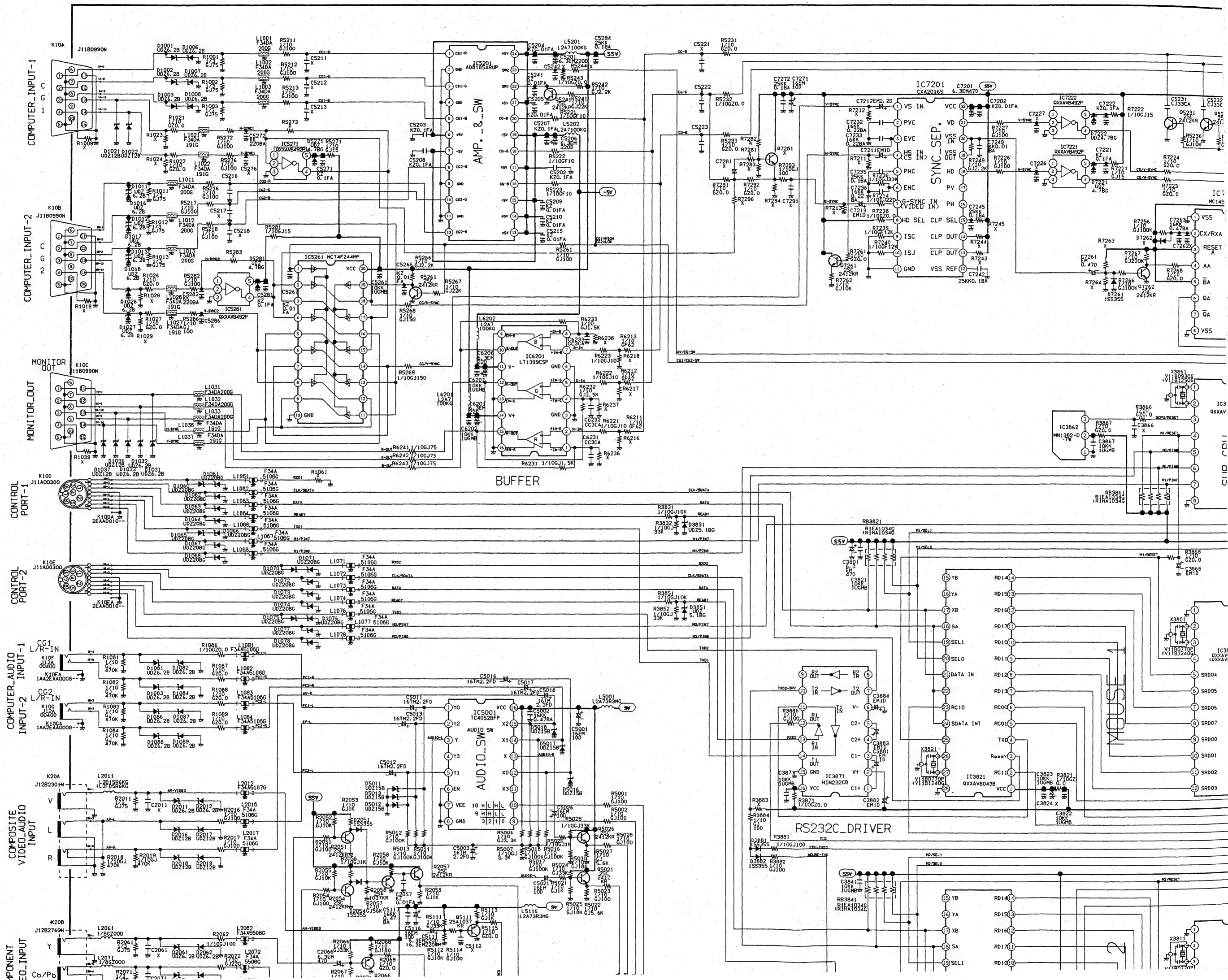


3  
PLC-XP17E/XP17B  
Reference NO. SM5110118



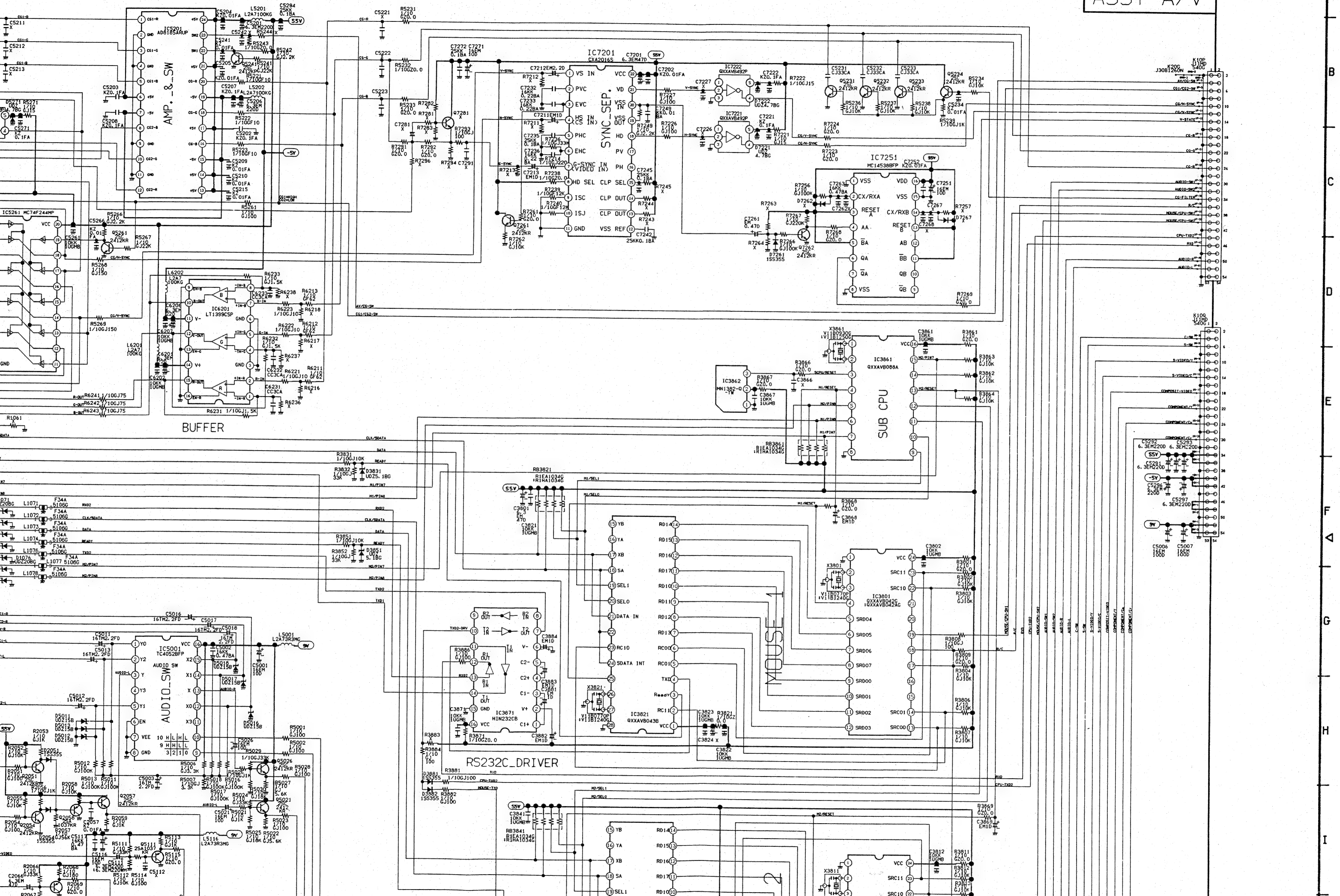




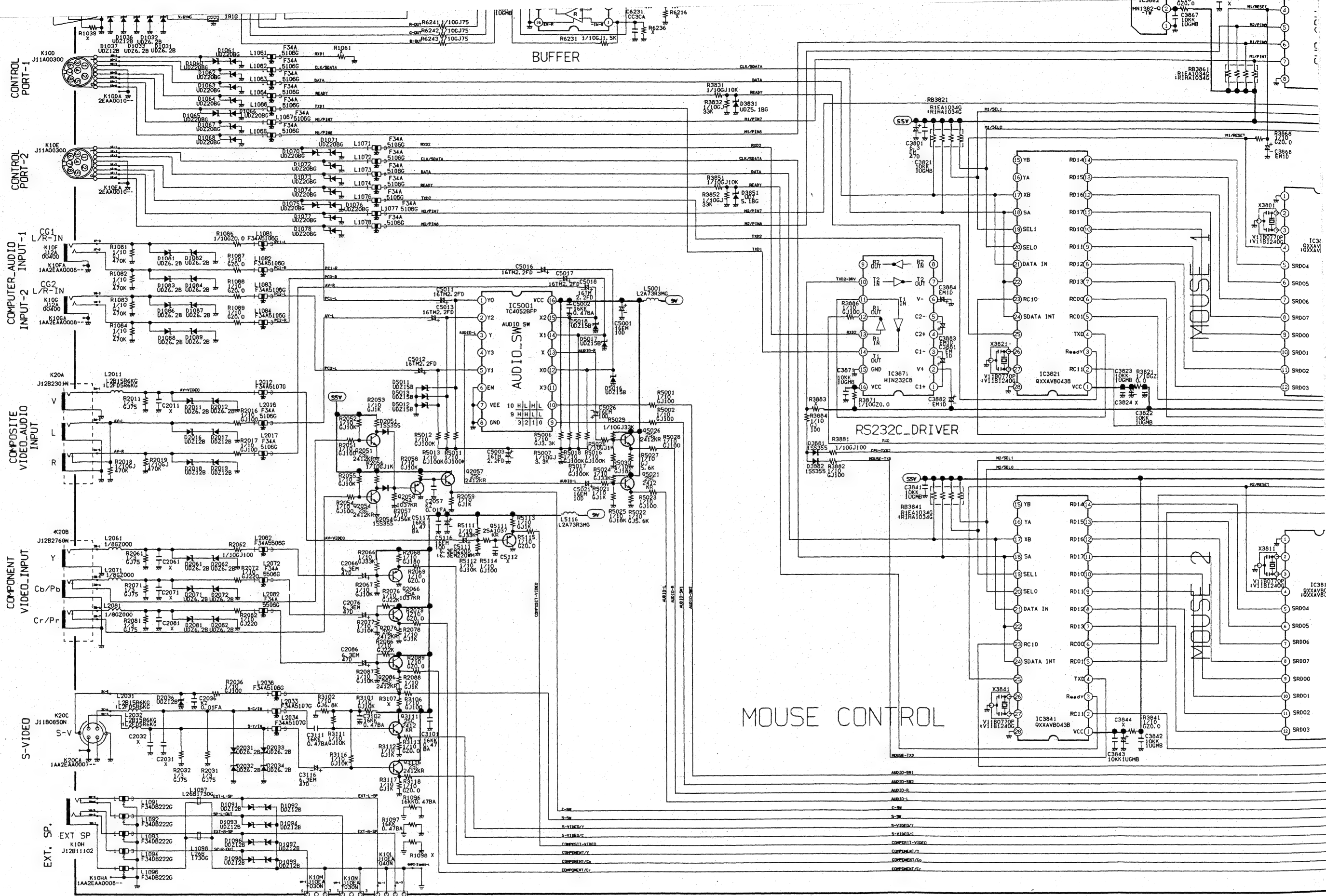


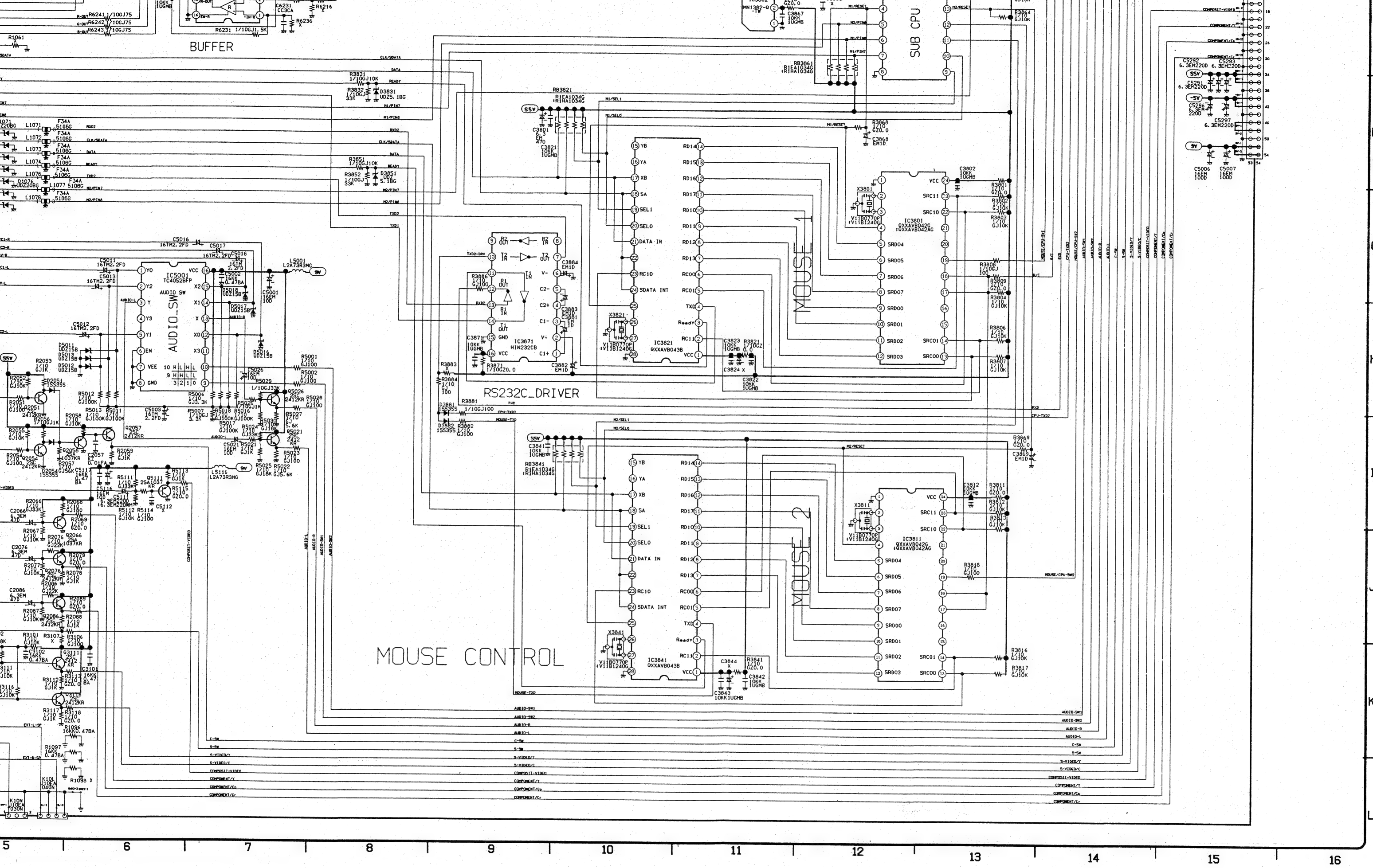


ASSY A/V

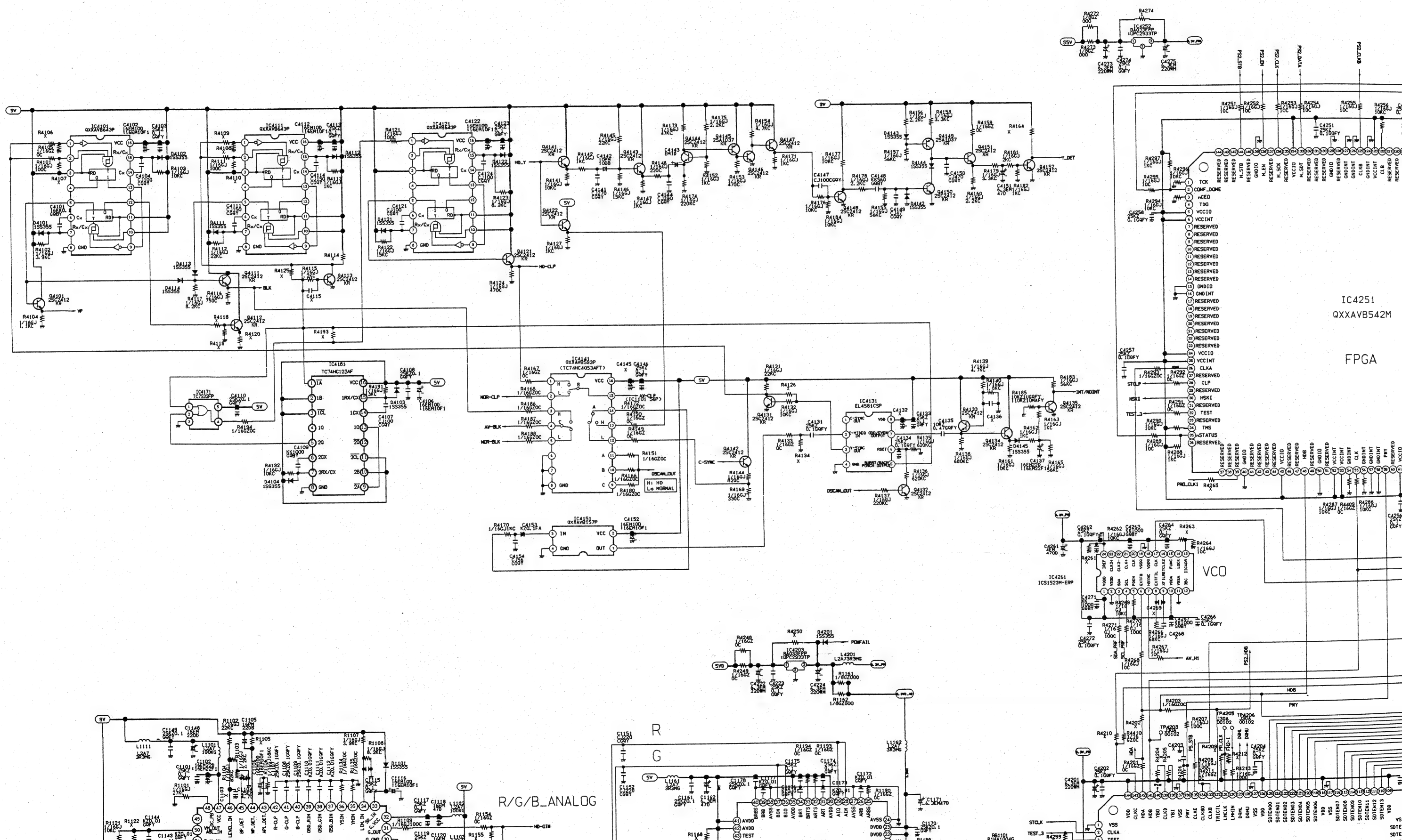






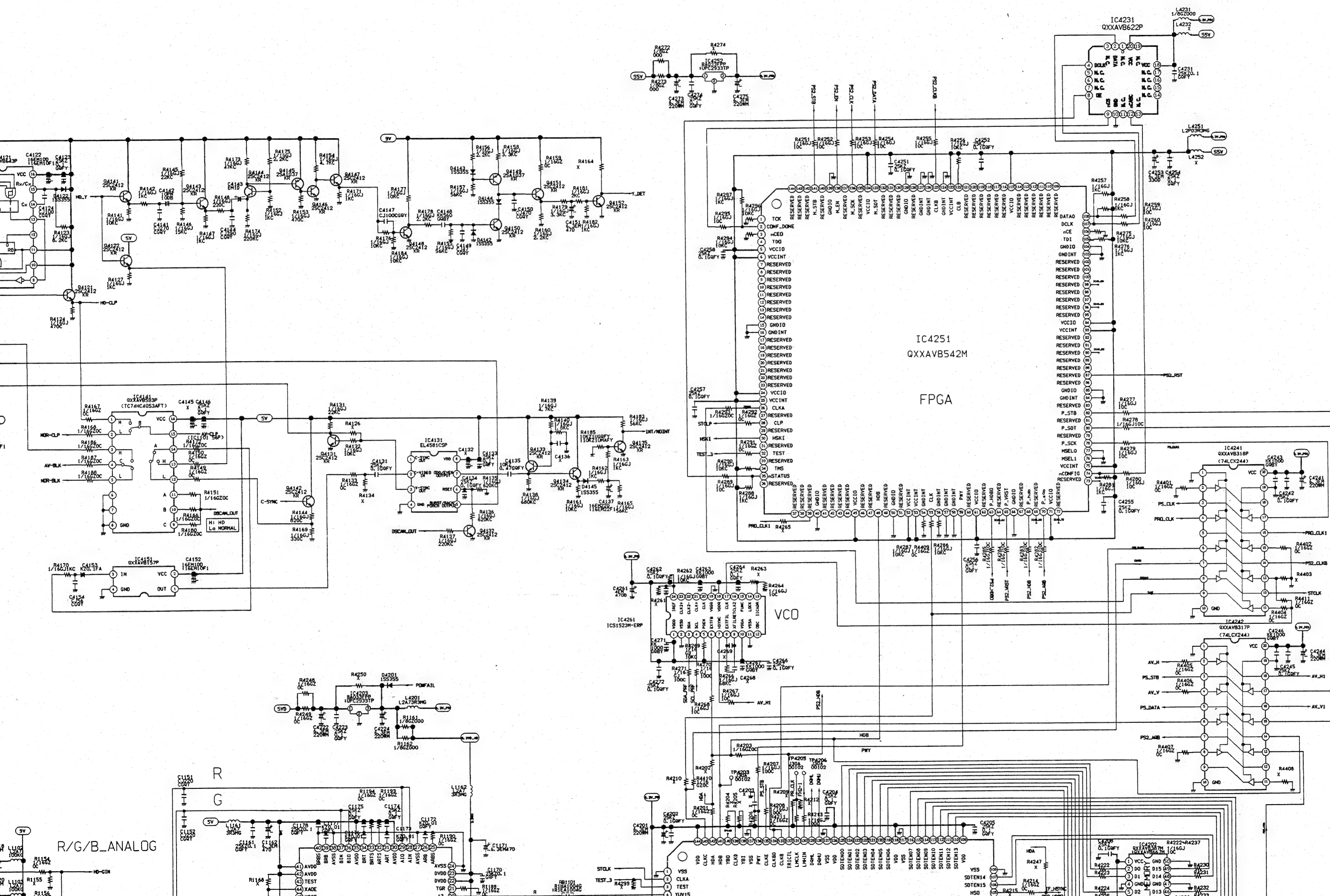


ASSY MAIN 2/5



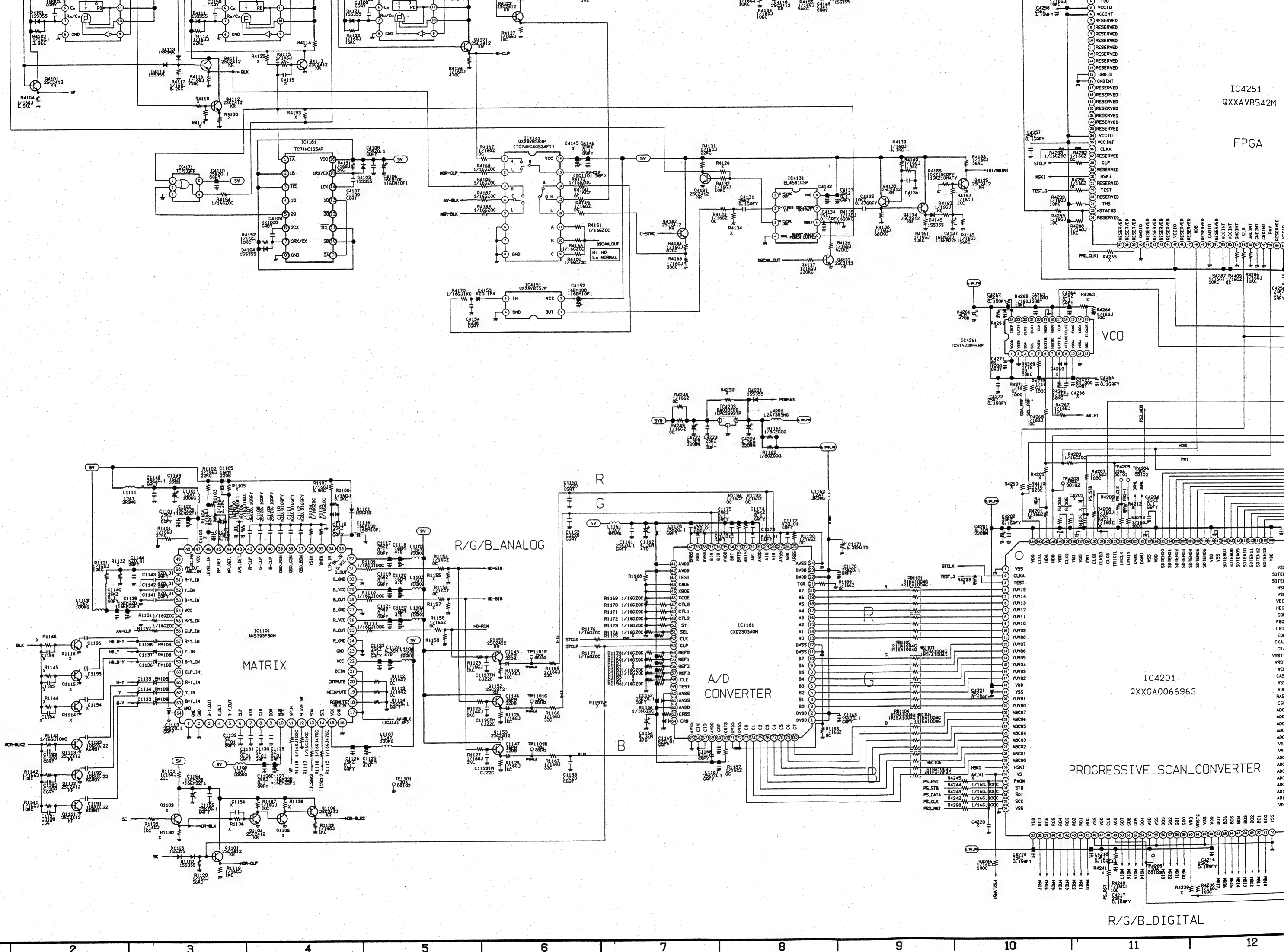


④ **PLC-XP17E/XP17B**  
**Reference. NO. SM5110118**





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IC4251  
QXXAVB542M

FPGA

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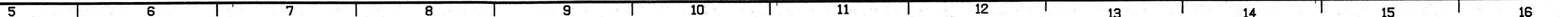
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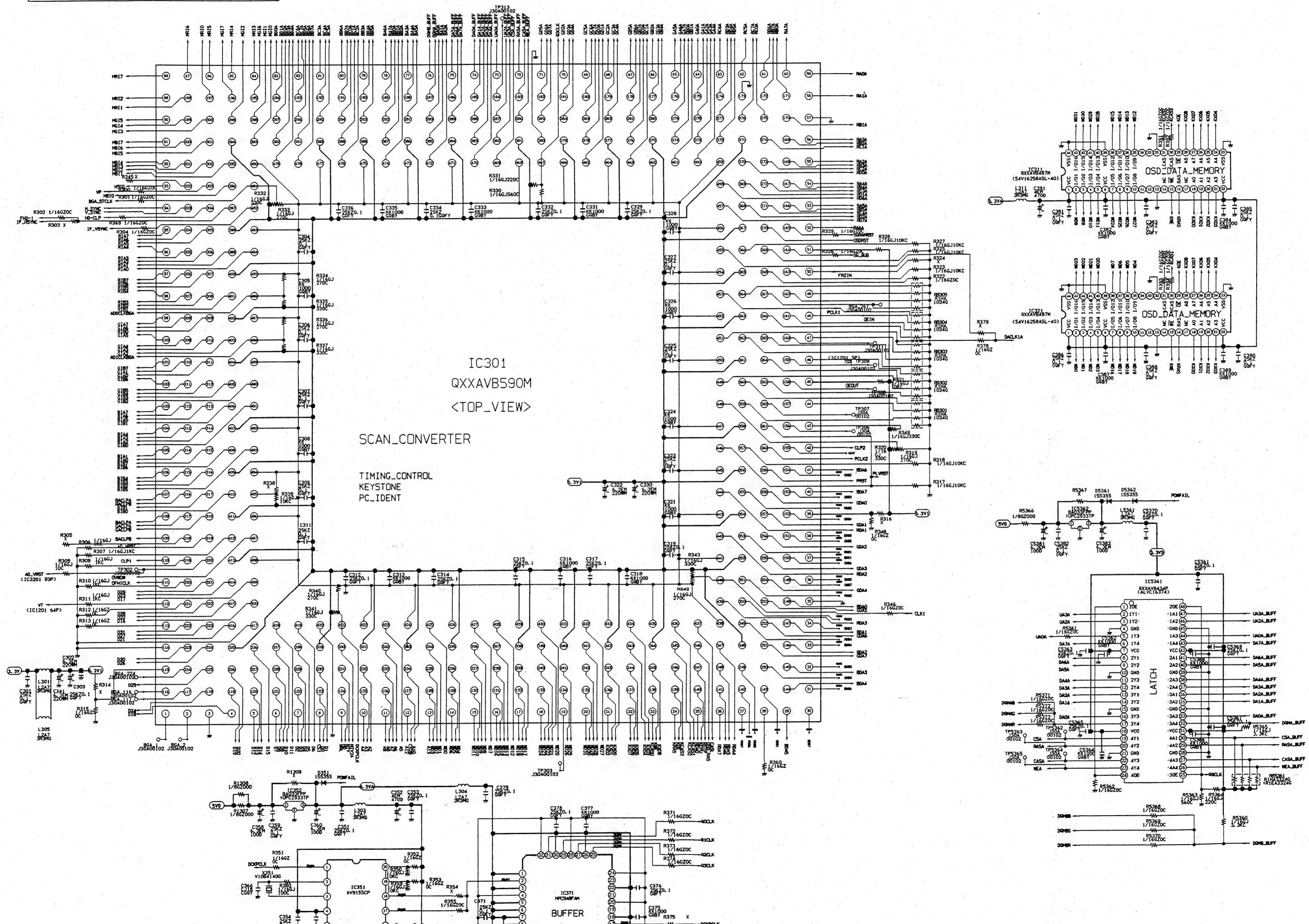
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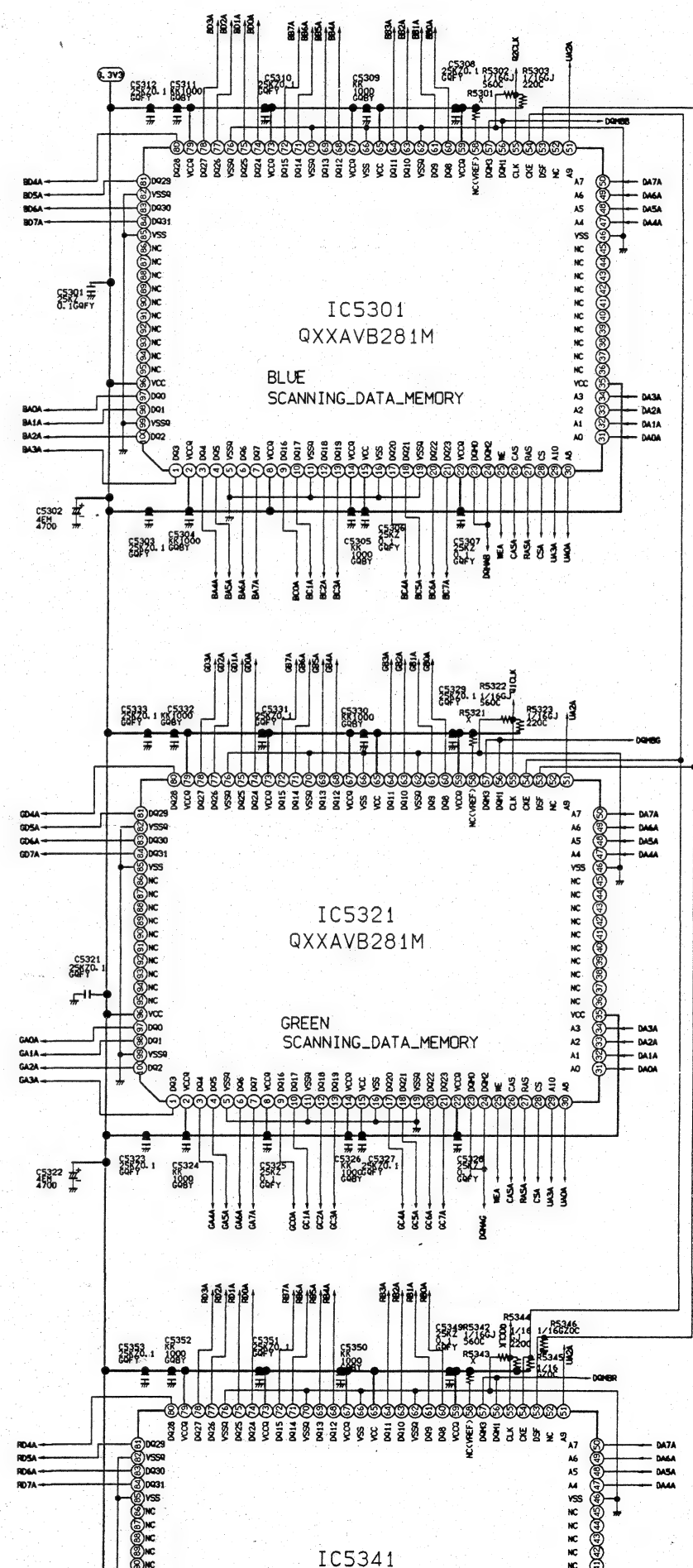
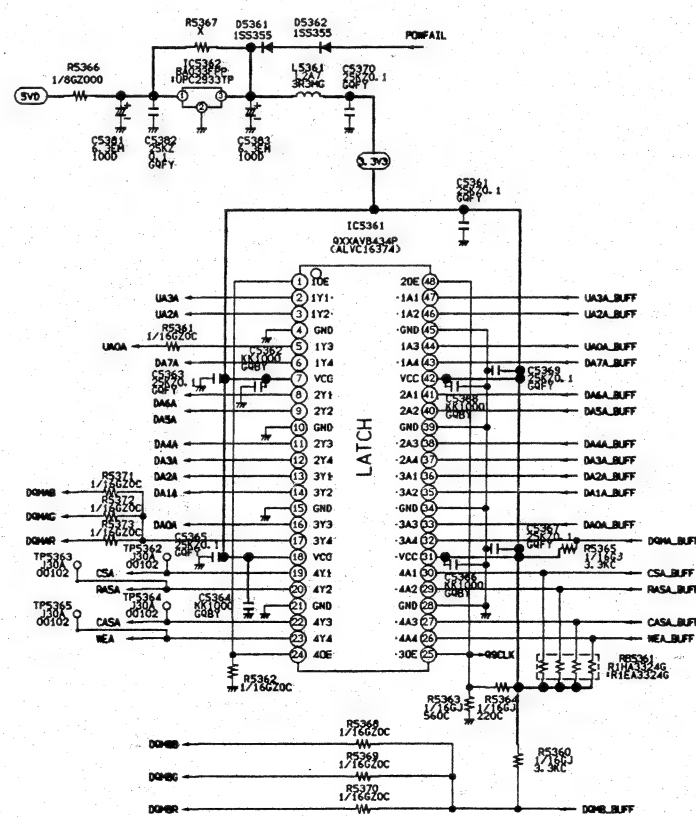
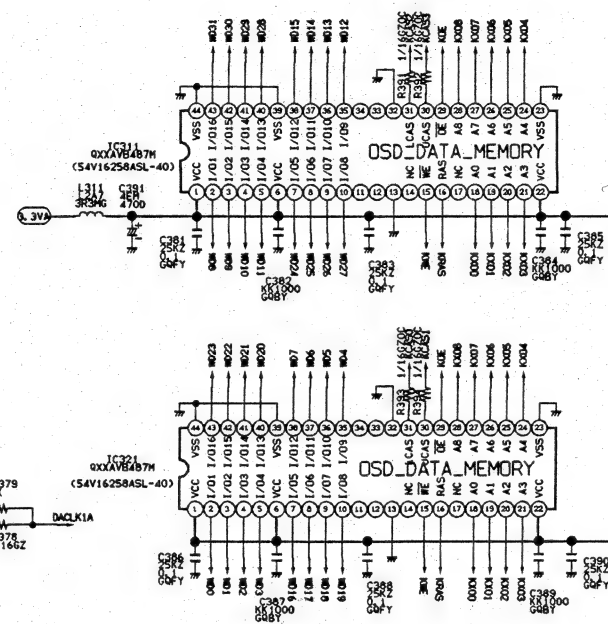
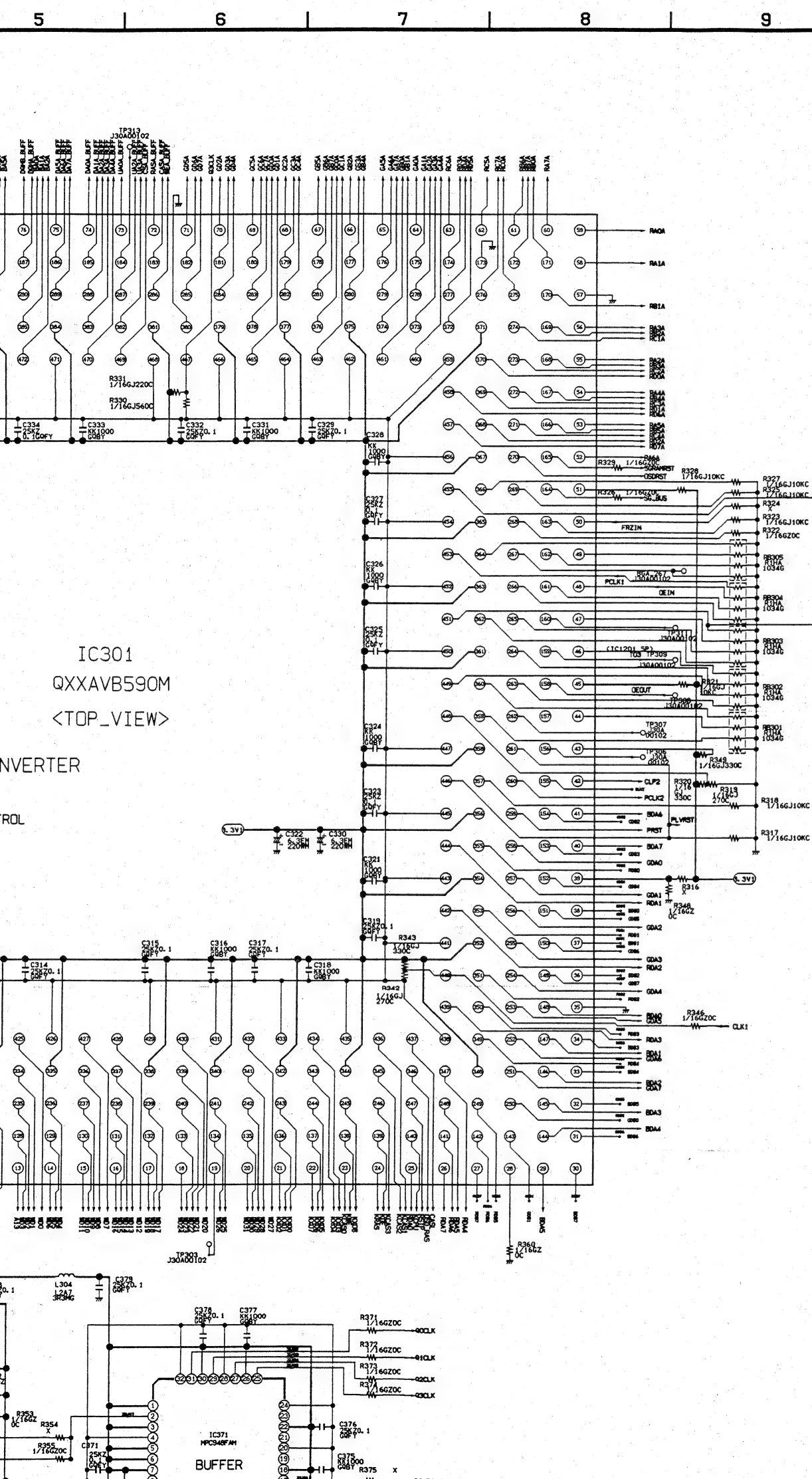
R/G/B\_DIGITAL

MATRIX







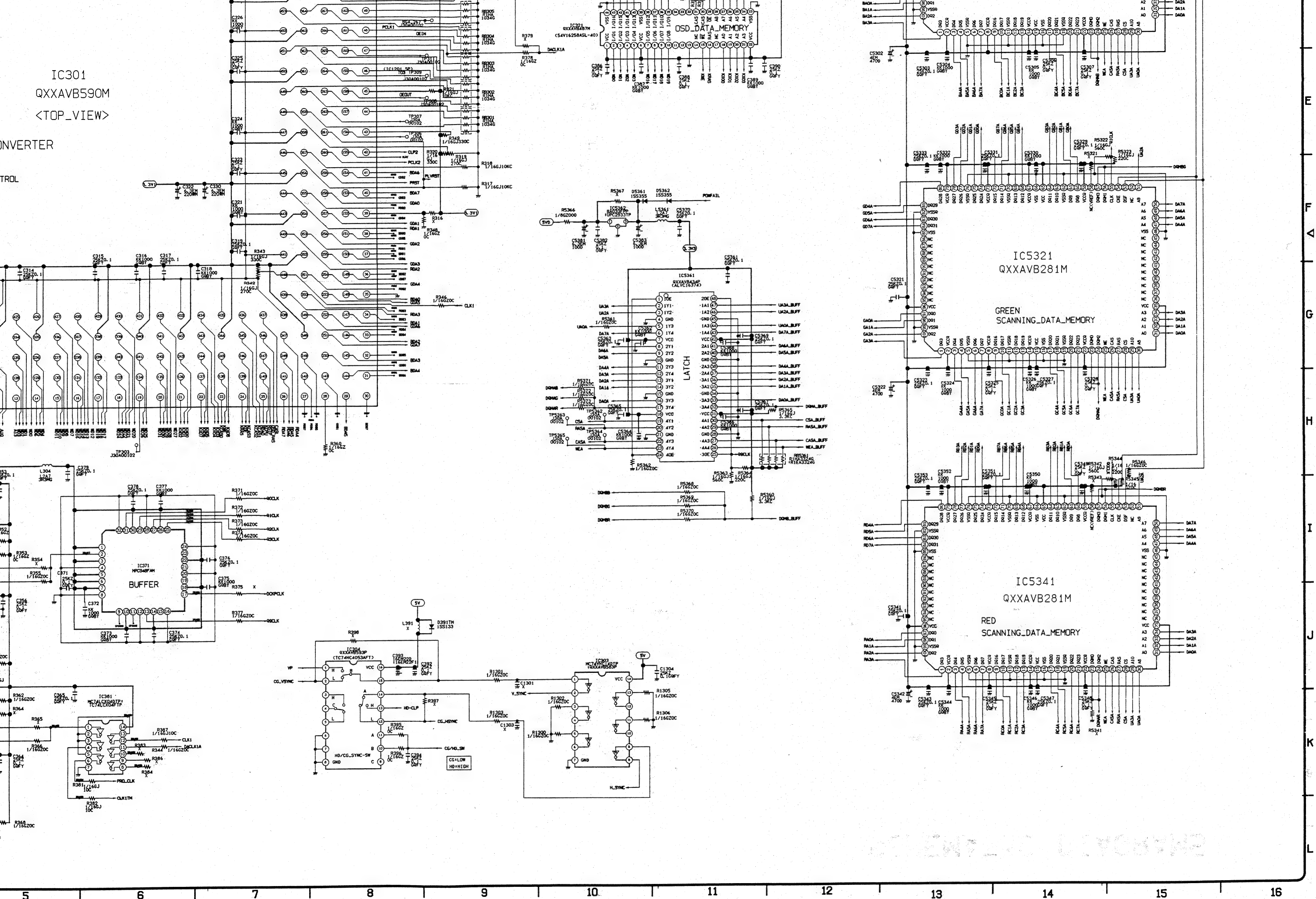


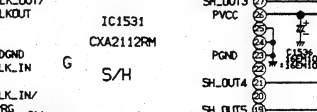




<TOP\_VIEW>

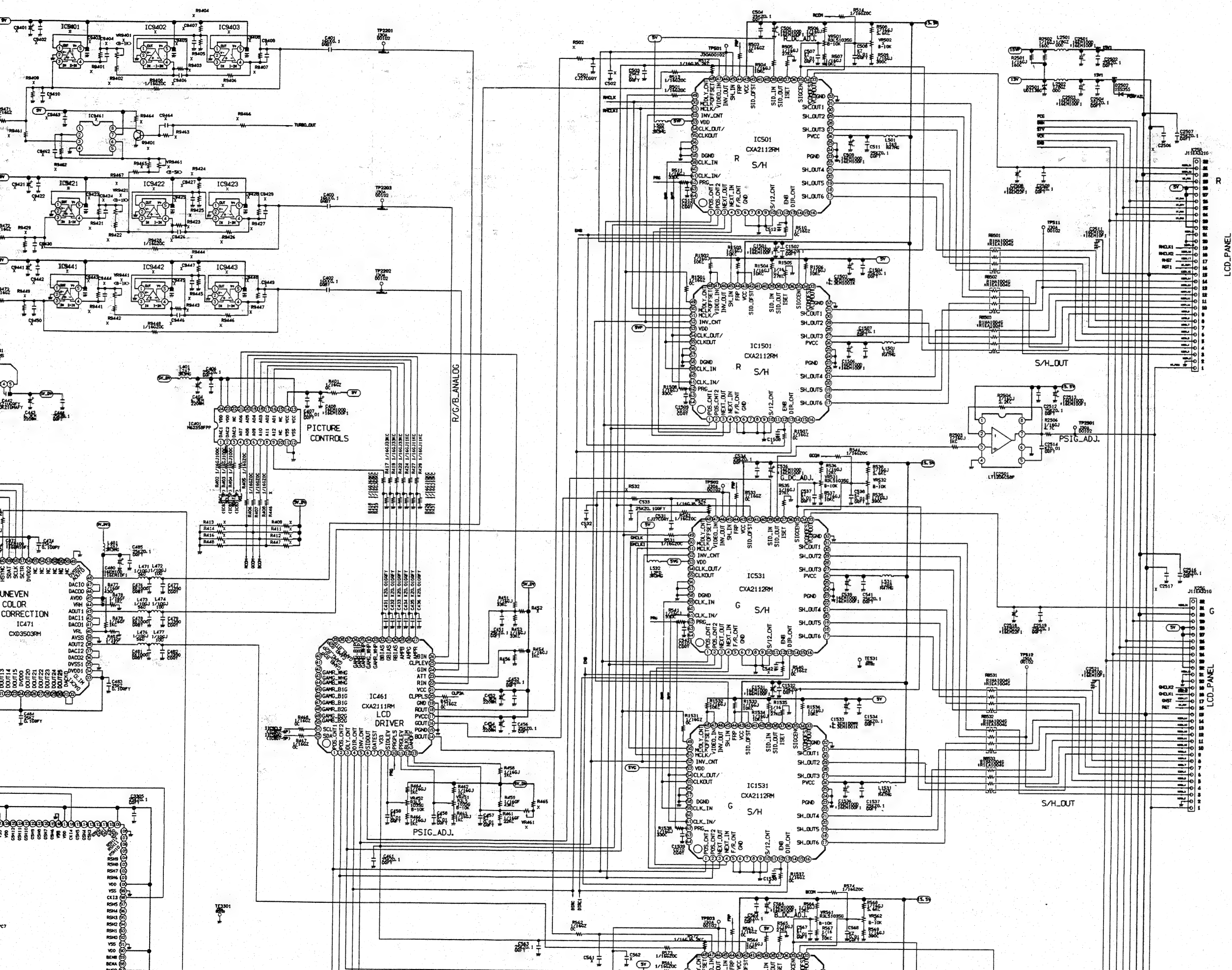
TROL



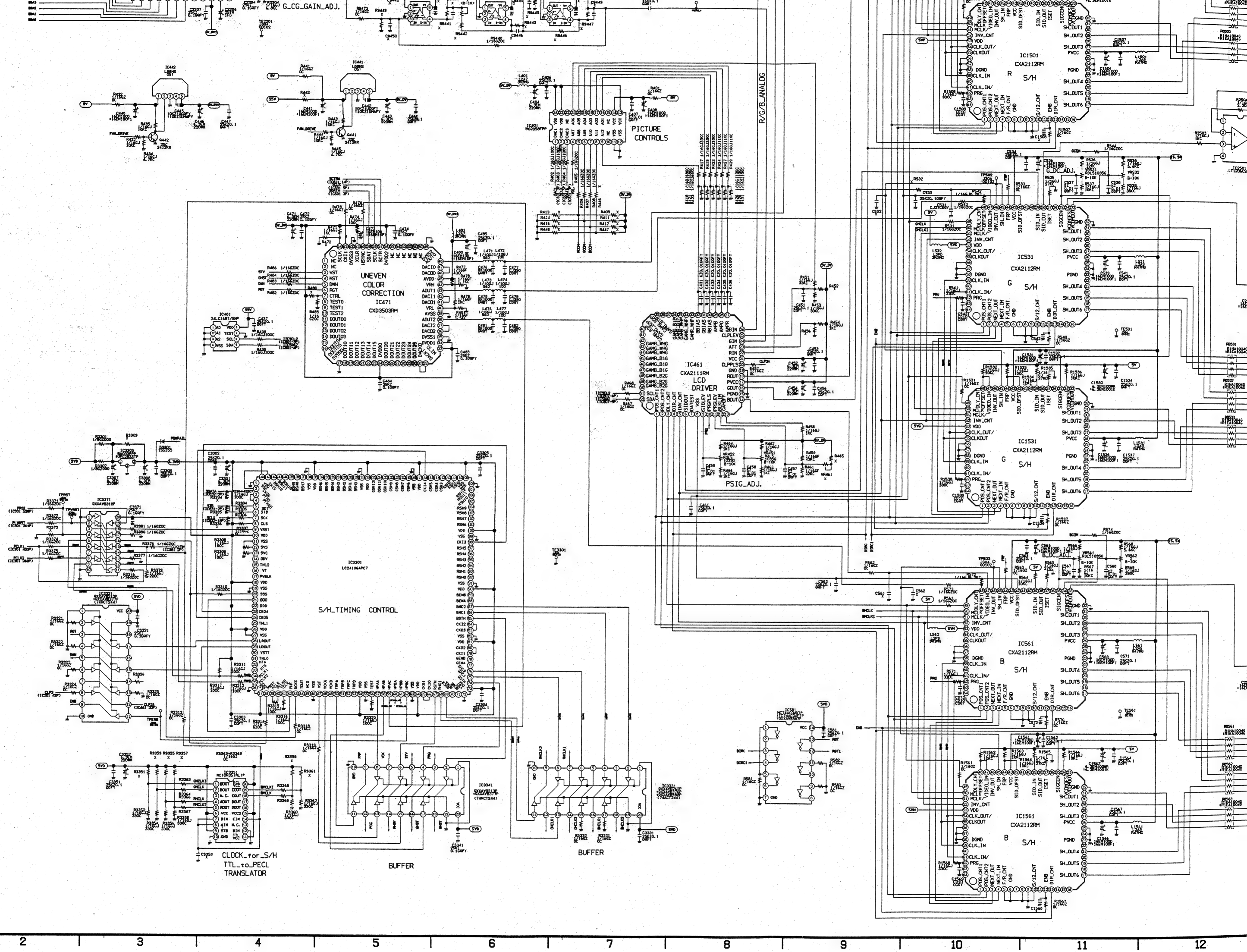


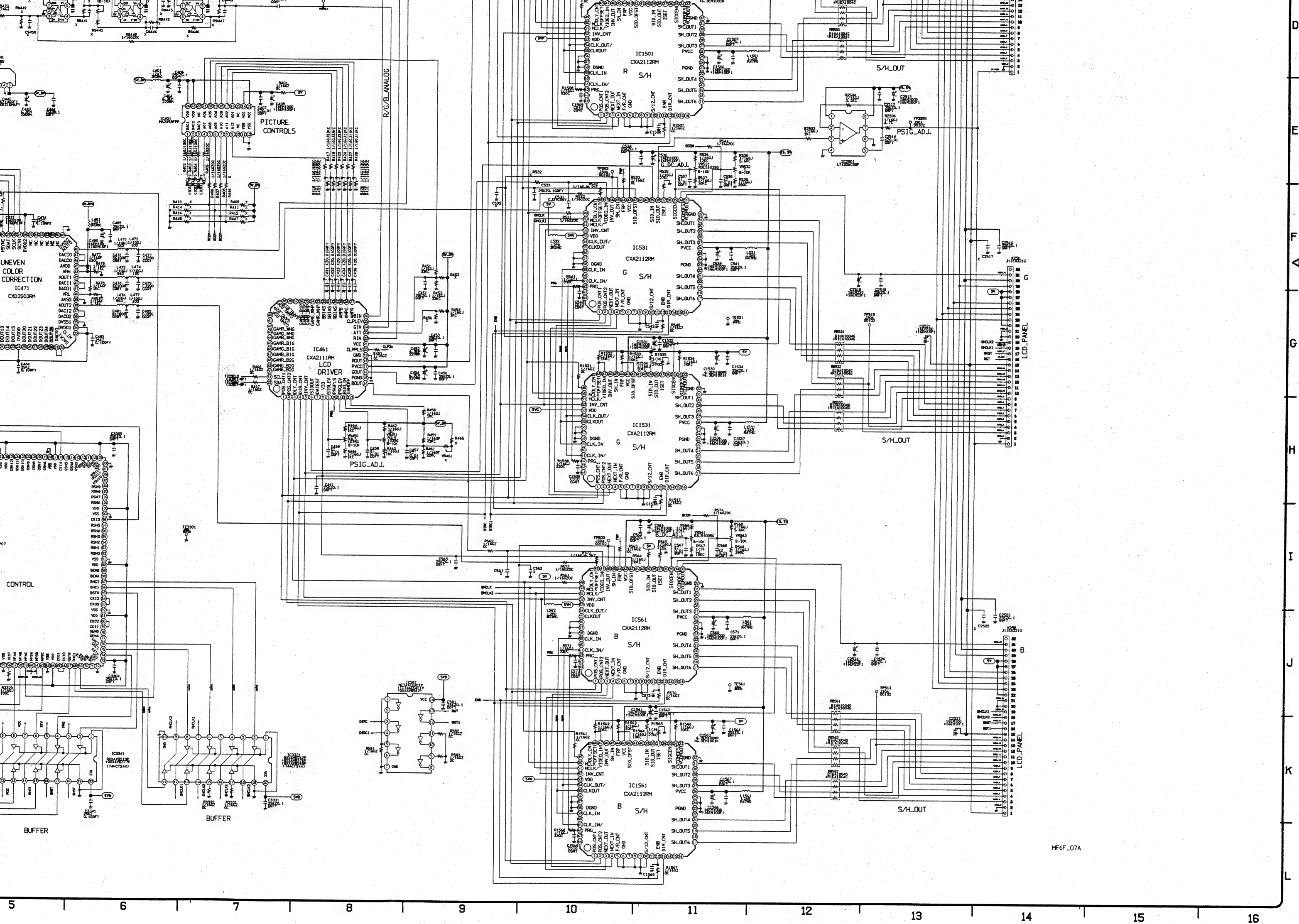


# SCHEMATIC DIAGRAMS









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